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IONOSPHERIC DATA

ISSUED
MARCH, 1945

PREPARED BY INTERSERVICE RADIO PROPAGATION LABORATORY
National Bureau of Standards
Washington, D.C.

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IONOSPHERIC DATA

Note.— Following the recommendations of the International Radio Propagation Conference, held in Washington 17 April to 5 May 1944, median values of all ionospheric characteristics are reported, beginning with data for January, 1945, for Washington, for all stations reporting to the IRPL, i.e., Baffin I., Canada; Christmas I.; Fairbanks, Alaska; Reykjavik, Iceland; Maui, Hawaii; Trinidad, Brit. West Indies; Huancayo, Peru; Watheroo, W. Australia; San Francisco, Calif.; Baton Rouge, La.; San Juan, Puerto Rico, and for the Canadian stations at Churchill and Ottawa, Canada. Conventions used in determining median values are given on page 6.

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TERMINOLOGY

The symbols and terminology used in this report are those adopted by the International Radio Propagation Conference, and given in detail on pages 24 to 26 of the report IRPL-C61, "Report of International Radio Propagation Conference", and on pages 4 and 5 of the previous F-series reports IRPL-F1, 2, 3, 4, 5, and 6.

MONTHLY AVERAGES AND MEDIAN VALUES OF IONOSPHERIC DATA

The tables and graphs of ionospheric data presented here are assembled by the Interservice Radio Propagation Laboratory for analysis and correlation principally incidental to IRPL predictions of radio propagation conditions. These data are furnished by the following:

Carnegie Institution of Washington (Department of Terrestrial Magnetism)
Baffin I., Canada
Christmas I.
Fairbanks, Alaska (University of Alaska, College, Alaska)
Reykjavik, Iceland
Maui, Hawaii
Trinidad, Brit. West Indies
Huancaayo, Peru
Watheroo, W. Australia

British National Physical Laboratory, and Inter-Services Ionosphere Bureau
 Radio Research Station, Slough, England
 Great Baddow, England
 Burghead, Scotland
 Delhi, India
 Madras, India
 Simonstown, Union of S. Africa

Australian Council for Scientific and Industrial Research
 Radio Research Board, Australia
 Brisbane, Q., Australia
 Mt. Stromlo, Canberra, NSW, Australia
 Cape York, Q., Australia

Canadian Department of National Defence, Naval Service
 Churchill, Canada
 Ottawa, Canada

New Zealand Radio Research Committee
 Kermadec Is.
 Christchurch (Canterbury University College Observatory)
 Campbell Is.
 Pitcairn I.

Peoples' Commissar for Postal and Electric Communications, Moscow, U.S.S.R.
 Tykhi Bay, U.S.S.R.
 Tomsk, U.S.S.R.
 Sverdlovsk, U.S.S.R.
 Moscow, U.S.S.R.

National Bureau of Standards, Washington, D.C.
 Stanford University, (San Francisco), California
 Louisiana State University, Baton Rouge, Louisiana
 University of Puerto Rico, San Juan, P.R.
 United States Army Air Forces, Pacific Ocean Area
 Guam I.
 Kwajalein Atoll

The "provisional data" tables give values as reported to the IRPL by telephone or telegraph. Any errors in these values will be corrected in later issues of the F-series reports.

The "final data" tables and graphs are correct for the values reported to the IRPL, but, because of variations in practice in the interpretation of records and scaling and manner of reporting of values, may at times give an erroneous conception of typical ionospheric characteristics at the station. Some of these errors are due to:

- a. Differences in scaling records where spread echoes are present.
- b. Omission of values where f^oF_2 is less than or equal to f^oF_1 , leading to erroneously high values of monthly average or median values.

- c. Omission of values where critical frequencies are less than the lower frequency limit of the recorder, also leading to erroneously high values of monthly average or median values.

These effects were discussed on pages 6 and 7 of the previous F-series reports, IRPL-F1, 2, 3, 4, and 5. Discrepancies between predicted and observed values are often ascribable to these effects.

IONOSPHERIC DATA FOR EVERY DAY AND HOUR

These data, observed at Washington, D.C., follow the scaling practices given in the report IRPL-C61, "Report of International Radio Propagation Conference", pages 36 to 39.

In determining the median values presented in this report, the following Conventions have been adopted:

- a. For all characteristics: where the value is missing because of A, B, or C (see IRPL-C61, loc. cit.), that hour is omitted from the median count.

- b. In addition,

- (1) For critical frequencies:

For all layers, where a value is missing because of E (see IRPL-C61, loc. cit.), it is counted as less than the lower limit of the recorder.

- (2) For virtual heights:

Values missing for any reason are omitted from the median count.

- (3) For muf factors:

Where a value is missing because of G (see IRPL-C61, loc. cit.), it is counted as less than the median count.

Values missing for any other reason are omitted from the median count.

Table 62 presents ionospheric character figures for Washington, D.C., during February, 1945, as determined by the criteria presented in the report IRPL-R5, "Criteria for Ionospheric Storminess", together with American magnetic K-figures which are usually covariant with them.

ERRATA

1. In the January issue of this report, IRPL-F5, values of $f^{\circ}E$ for Maui, Hawaii, in October, 1944, were plotted in Fig. 26 one hour earlier than they should have been. Values given for these data in the provisional Table 3, of IRPL-F3, with revisions indicated in Table 31, IRPL-F5 (no revision being necessary for $f^{\circ}E$ values), are correct.

2. In the report "Radio Propagation Conditions", issued 10 July, 1944, Fig. 4, values of F1-M2500 are incorrectly presented as $f^{\circ}F1$ values.

Table 1

Fairbanks, Alaska (64.5°N, 147.8°W)

February, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	300	1.3						3.0
01	320	1.8						3.0
02	340	2.0						3.0
03	330	2.1						2.6
04	340	2.3						2.9
05	340	2.2						2.8
06	370	2.0						2.9
07	270	2.4						3.0
08	250	3.0			100	1.5		3.2
09	240	4.1	200	3.2	100	1.9		3.3
10	240	4.7	220	3.2	100	2.1		3.3
11	240	5.0	220	3.4	100	2.1		3.5
12	240	5.3	230	3.3	100	2.2		3.3
13	240	5.4	220	3.3	100	2.2		3.3
14	230	5.6	230	3.2	100	2.1		3.3
15	230	5.5			100	1.8		3.4
16	230	5.1			100	1.5		3.3
17	220	4.6			100	1.2		3.3
18	230	3.4						3.3
19	240	2.6						3.4
20	280	2.0						3.2
21	290	1.7						3.1
22	300	1.5						3.1
23	300	1.8						3.0

Time: 1500^h.

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Table 3

Churchill, Canada (58.8°N, 94.2°W)

February, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00								3.0
01		3.3						
02								
03								
04								
05								
06								
07								
08		3.6						3.2
09		4.2						3.2
10		4.7						3.2
11		5.3						3.2
12		5.4						3.2
13		5.7						3.1
14		5.9						3.2
15		6.1						3.2
16		6.1						3.2
17		5.9						3.2
18		4.6						3.0
19		3.8						3.1
20		3.7						3.0
21		3.7						3.0
22								
23								

Time: 900^h.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 2

Reykjavik, Iceland (64.1°N, 21.7°W)

February, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00								
01								
02								
03								
04								
05								
06								
07	320	2.7						3.0
08	280	2.4						3.0
09	230	3.0						3.2
10	220	4.0						3.4
11	200	4.7						3.4
12	210	5.2	230	3.6	112	2.4		3.4
13	220	5.4	210	3.6	110	2.3		3.6
14	240	5.3	100	3.5				3.5
15	220	5.5			110	2.4		3.5
16	210	5.4						3.5
17	220	5.1						3.4
18	220	4.6						3.4
19	230	4.2						3.2
20	250	4.3						3.3
21								3.3
22	220	5.1						3.4
23								

Time: 1500^h.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 4

Great Baddow, England (51.7°N, 0.5°E)

February, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00								2.3
01		3.1						2.8
02		3.0						2.9
03		3.0						2.9
04		2.7						2.9
05		2.5						3.0
06		2.2						3.0
07		3.1						3.2
08		4.9						3.5
09		5.6						3.5
10		6.1						3.4
11		6.5						3.4
12		6.7						3.4
13		6.4						3.4
14		6.5						3.5
15		6.2						3.4
16		5.9						3.4
17		5.5						3.4
18		4.9						3.2
19		4.3						3.1
20		3.6						3.0
21		3.3						2.9
22		3.2						2.9
23		3.2						2.9

Time: 00

Length of time sweep: Manual operation.

Table 5

Maui, Hawaii (20.8°N, 156.5°W) February, 1945

Time	h°P2	f°P2	h°P1	f°P1	h°E	f°E	F2-M3000
00	280	3.2					3.0
01	280	3.4					3.3
02	240	3.5					3.4
03	230	3.2					3.4
04		2.3					
05							
06							
07	240	4.0					3.3
08	230	6.2			115	2.5	3.4
09	260	7.1	200		100	2.8	3.3
10	290	8.6	200	4.6	100	3.1	3.1
11	280	9.7	200	4.7	100	3.3	3.2
12	280	11.0	190	4.8	100	3.4	3.1
13	280	11.3	200	4.7	100	3.4	3.0
14	270	12.2	200	4.6	100	3.3	3.2
15	260	12.0	190	4.5	100	3.2	3.4
16	240	10.4	200	4.2	100	2.9	3.4
17	220	8.4			110	2.4	
18	210	7.0					3.5
19	200	5.5					3.5
20	220	4.1					3.4
21	250	3.4					3.2
22	260	3.5					3.1
23	260	3.4					3.2

Time: 150°E.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 7

Brisbane, Q., Australia (27.5°S, 153.0°E) February, 1945

Time	h°P2	f°P2	h°P1	f°P1	h°E	f°E	F2-M3000
00		5.1					2.9
01		4.9					3.0
02		4.4					3.1
03		3.9					3.1
04		3.4					3.0
05		3.2					3.1
06		4.3					3.4
07		5.2					3.4
08		5.5					3.3
09		6.0					3.1
10		6.6					3.0
11		7.0					3.0
12		7.3					3.0
13		7.5					3.0
14		7.7					3.0
15		7.3					3.1
16		7.6					3.1
17		7.2					3.3
18		6.6					3.2
19		6.0					3.1
20		5.6					2.9
21		5.2					2.8
22		5.1					2.8
23		5.1					

Time: 150°E.

Length of time sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds

Table 6

Huancayo, Peru (12.0°S, 75.3°W) February, 1945

Time	h°P2	f°P2	h°P1	f°P1	h°E	f°E	F2-M3000
00	280	6.2					2.8
01	260	5.2					3.3
02	250	4.8					3.0
03	250	3.9					3.1
04	250	3.1					3.4
05	250	2.2					3.0
06	250	4.2				1.6	3.2
07	240	6.8				2.5	3.3
08	300	8.4	220	4.4		2.9	3.0
09	320	9.0	220	4.5		3.4	2.9
10	340	9.2	210	4.7		3.7	2.7
11	360	9.0	210	4.7		3.9	2.5
12	350	8.9	200	4.7		3.8	2.5
13	350	9.1	200	4.6			2.6
14	330	9.6	200	4.6			2.6
15	320	10.0	200	4.4		3.3	2.6
16	290	10.2	200	4.2		3.0	2.6
17	230	9.9				2.5	2.7
18	250	9.3				1.8	2.7
19	280	9.4					2.8
20	290	9.2					2.7
21	300	8.9					2.8
22	280	8.5					2.9
23	280	8.3					2.9

Time: 75°W.

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Table 8

Kermadec Is. (29.2°S, 177.9°W) February, 1945

Time	h°P2	f°P2	h°P1	f°P1	h°E	f°E	F2-M3000
00	308	5.37					
01	298	5.32					
02	236	4.97					
03	292	4.30					
04	303	4.01					
05	304	3.48					
06	272	4.50					
07	293	5.76					
08	300	6.51	256	3.72	124	1.54	
09	303	7.12	245	4.19	113	2.26	
10	312	7.39	242	4.35	116	3.03	
11	320	7.65	244	4.52	116	3.08	
12	342	7.98	239	4.59	116	3.31	
13	314	8.16	240	4.69	114	3.33	
14	321	7.99	255	4.63	116	3.33	
15	316	7.50	253	4.51	114	3.35	
16	309	6.73	234	4.24	118	3.22	
17	299	7.80	266	4.25	122	2.97	
18	296	7.72	245	3.93	124	2.61	
19	271	7.33					
20	279	6.43					
21	296	5.97					
22	309	5.80					
23	314	5.57					

Time: Local.

Length of time sweep: 1.8 Mc to 12.8 Mc. Manual operation.

Table 9

Christchurch, N.Z. (43.5°S, 172.5°E) February, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	276	4.58						
01	273	4.23						
02	263	3.81						
03	266	3.44						
04	260	2.79						
05	266	2.80						
06	249	3.37						
07	272	4.65	231	3.72	99	1.91		
08	316	5.16	223	4.03	98	2.40		
09	317	5.69	221	4.21	99	2.83		
10	310	5.84	230	4.46	96	3.08		
11	331	5.89	213	4.49	93	3.16		
12	320	6.15	222	4.54	100	3.19		
13	329	6.11	216	4.54	100	3.31		
14	325	6.26	228	4.51	100	3.24		
15	315	5.79	226	4.33	102	3.69		
16	311	6.17	230	4.12	100	2.82		
17	293	6.21	240	3.89	101	2.83		
18	277	6.03	241	3.41	103	2.13		
19	245	6.67				1.63		
20	241	6.84						
21	265	6.00						
22	264	5.30						
23	275	4.85						

Time: 172.5°E.

Length of time sweep: 2.5 Mc to 12 Mc in two minutes.

Table 10

Burghead, Scotland (57.7°N, 3.5°W) January, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		2.2						
01		2.4						
02		2.5						
03		2.3						
04		2.4						
05		2.2						
06		2.0						
07		2.0						
08		2.7						
09		4.3						
10		5.3						
11		5.8						
12		6.2						
13		6.2						
14		6.0						
15		5.5						
16		5.2						
17		4.6						
18		3.1						
19		2.7						
20		2.5						
21		2.5						
22		2.3						
23		2.2						

Time: 0°

Table 11

Delhi, India (28.6°N, 77.2°E) January, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		2.7						
01		2.8						
02		2.4						
03		2.6						
04		2.2						
05		2.1						
06		2.7						
07		4.8						
08		6.0						
09		7.2						
10		8.1						
11		8.5						
12		8.4						
13		8.2						
14		7.3						
15		7.1						
16		6.6						
17		5.4						
18		4.2						
19		3.9						
20		3.4						
21		2.7						
22		2.6						
23		2.6						

Time: 75°E.

Table 12

Trinidad, Brit. West Indies (10.6°N, 61.3°W) January, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	300	3.4						3.0
01	260	3.5						3.1
02	250	3.7						3.3
03	250	3.1						3.2
04	315	3.0						2.9
05	260	3.2						3.2
06	260	3.2						3.1
07	240	5.4				1.8		3.4
08	260	6.5	250	4.2	100	2.5		3.3
09	265	8.0	238	4.4	105	2.9		3.4
10	252	7.8	220	4.5	105	3.2		3.5
11	288	7.0	205	4.6	105	3.3		3.3
12	312	6.9	200	4.6	105	3.4		3.0
13	300	8.0	225	4.6	105	3.4		3.1
14	300	8.0	240	4.5	105	3.3		3.2
15	300	6.8	240	4.4	105	3.1		3.1
16	290	6.8	240	4.2	105	2.8		3.1
17	258	7.9	238	3.4	105	2.4		3.2
18	230	7.0				2.1		3.4
19	220	3.8				1.7		3.4
20	250	3.2						3.1
21	300	3.3						3.0
22	275	3.3						3.0
23	300	3.1						2.9

Time: 60°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 13

Christmas I. (2.00N, 157.00E)

January, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	240	4.6						3.3
01								
02								
03								
04								
05								
06	280	3.7						3.1
07	240	4.9						3.1
08	230	6.9	220	4.1	120	2.6		2.8
09	320	6.8	210	4.5	120			2.6
10	360	6.8	210	4.5				2.5
11	380	6.5	200	4.6				2.7
12	380	6.9	190	4.7				2.6
13	370	7.4	190	4.6				2.6
14	360	7.7	190	4.6	110	3.4		2.7
15	330	8.4	180	4.5	120	3.2		2.9
16	310	9.0	210	4.4	120	3.0		3.0
17	250	9.2	230		110			3.1
18	240	9.1			120			3.1
19	240	8.1						3.2
20	240	7.4						3.2
21	240	6.3						3.2
22	250	6.0						3.2
23	250	5.2						3.3

Time: 1500.

Length of time sweep: Manual operation.

Table 15

Cape York, Q., Australia (11.00S, 142.40E)

December, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		7.2						3.0
01		6.7						3.0
02		6.5						3.2
03		5.6						3.2
04		4.6						3.2
05		4.5						3.2
06		5.1						3.4
07		5.3						3.4
08		6.2						3.1
09		6.9						3.0
10		7.4						2.8
11		8.1						2.7
12		9.4						2.5
13		10.4						2.9
14		10.4						3.0
15		9.9						3.0
16		9.2						2.9
17		8.8						2.9
18		8.3						2.8
19		8.3						3.0
20		8.5						3.2
21		8.7						3.1
22		8.3						3.1
23		7.7						3.1

Time: Local.

Table 14

Watheroo, W. Australia (30.30S, 115.90E)

January, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		4.5						2.9
01		4.0						2.9
02		3.6						2.9
03		3.2						2.9
04		3.0						2.8
05		3.4						3.0
06		4.3						3.2
07		4.9						2.9
08		5.4						2.9
09		5.7						2.9
10		6.0						2.9
11		6.6						2.8
12		7.0						2.9
13		7.3						2.9
14		7.4						3.0
15		7.0						3.1
16		6.5						3.2
17		6.0						3.2
18		5.5						3.1
19		5.2						3.0
20		5.2						2.9
21		5.0						2.9
22		4.8						2.3
23		4.7						2.3

Time: 1200E.

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Table 16

Washington, D.C. (39.00N, 77.50W)

February, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	260	2.5					2.4	3.0
01	270	2.4					2.2	2.9
02	280	2.6					1.9	2.9
03	260	2.6					0.9	3.0
04	260	2.9					2.3	3.0
05	240	2.8					2.8	3.2
06	240	2.7					2.3	3.2
07	240	3.8					2.3	3.3
08	220	5.4			120	2.0	2.5	3.4
09	240	5.7	220		120	2.6	3.0	3.4
10	260	6.4	220	4.0	120	2.9	3.1	3.3
11	260	6.6	220	4.2	120	3.0		3.3
12	280	6.7	220	4.2	120	3.1		3.3
13	280	7.4	220	4.2	120	3.0		3.2
14	280	7.0	220	4.1	120	3.0	3.2	3.2
15	260	6.9	220	3.8	120	2.8	2.7	3.2
16	260	6.6	220		120	2.4	2.6	3.2
17	240	6.2			120	1.9	2.8	3.3
18	220	5.4					2.4	3.2
19	240	4.7						3.2
20	240	3.8						3.2
21	260	3.2						3.1
22	260	2.8					1.9	3.1
23	260	2.7						3.0

Time: 750N.

Length of time sweep: 0.8 Mc to 14 Mc in two minutes.

Table 17

San Francisco, Calif. (37.4°N, 122.2°W) February, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	250	3.2					2.4	3.1
01	250	3.1					2.0	3.0
02	250	3.2					2.1	3.1
03	250	3.3					2.4	3.2
04	240	3.3					1.9	3.2
05	250	3.2						3.2
06	240	3.2						3.2
07	240	4.3					2.0	3.3
08	230	6.3	220	3.0	110	2.3	3.0	3.4
09	240	6.9	220	3.8	110	2.5	3.4	3.4
10	250	7.3	220	4.0	110	2.9	3.7	3.4
11	270	7.8	220	4.2	110	3.0	3.7	3.3
12	270	8.3	220	4.3	110	3.2	3.7	3.2
13	260	8.5	220	4.2	110	3.2	3.8	3.4
14	260	7.9	220	4.2	110	3.0	3.6	3.4
15	250	7.4	220	3.3	110	2.9	3.6	3.4
16	240	6.3	230	3.5	110	2.5	3.3	3.4
17	230	6.4				2.1	3.2	3.4
18	220	4.9					2.7	3.4
19	230	3.9					2.6	3.3
20	240	3.3					2.4	3.4
21	240	3.0					2.4	3.3
22	240	3.0					2.4	3.2
23	250	3.1					2.4	3.0

Time: 1200°.

Length of time sweep: 0.3 Mc to 12 Mc in six minutes. Record centered on the hour.

Table 19

San Juan, Puerto Rico (18.4°N, 66.1°W) February, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		3.4						3.0
01		3.6						2.9
02		3.7						3.0
03		4.0						3.1
04		3.7						3.2
05		3.0						3.1
06		3.0						3.1
07	320	4.6						3.1
08	300	6.0						3.2
09	320	6.5						3.1
10	330	7.2	270	4.3		3.0		3.1
11	320	7.6	255	4.6		3.3		3.0
12	320	7.7	250	4.6		3.4		3.0
13	330	7.8	250	4.6		3.3		3.0
14	330	7.8	275	4.5		3.4		3.0
15	330	6.9	270	4.3		3.2		3.0
16	325	7.2						3.0
17	320	7.7	275	4.0				3.0
18	290	6.9						3.0
19	290	6.0						3.2
20		4.8						3.3
21		3.6						3.2
22		3.5						3.1
23		3.4						3.0

Time: 600°.

Length of time sweep: 2.7 Mc to 11.4 Mc in twelve minutes. Record centered on the hour.

Table 18

Baton Rouge, Louisiana (30.5°N, 91.2°W) February, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	290	3.5						3.0
01	280	3.3						3.0
02	280	3.3						3.0
03	275	4.0						3.1
04	250	4.0						3.2
05	255	3.5						3.1
06	265	3.2						3.1
07	250	5.2						3.4
08	250	6.1			120	2.2		3.3
09	260	6.6	250	3.7	120	2.6		3.3
10	285	7.0	240	4.4	120	2.9		3.2
11	290	7.4	240	4.5	120	3.1		3.1
12	290	7.6	230	4.5	120	3.1		3.1
13	290	8.1	230	4.5	120	3.1		3.1
14	280	8.0	240	4.4	120	3.1		3.2
15	270	7.5	240	4.2	120	2.9		3.2
16	260	7.2	240	3.7	120	2.6		3.2
17	245	7.0			120	2.0		3.3
18	230	6.0						3.4
19	230	4.3						3.3
20	250	3.6						3.1
21	255	3.5						3.2
22	280	3.4						3.0
23	290	3.4						3.0

Time: 900°.

Length of time sweep: 1.9 Mc to 9.8 Mc in three minutes, thirty seconds. Record centered on the hour.

Table 20

(Corrections and additions to previously published provisional data)

Fairbanks, Alaska (64.9°N, 147.8°W) January, 1945

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00								
01		1.2					3.2	3.1
02	355						3.2	
03	325						3.5	3.0
04	345						3.4	
05	325						3.2	2.9
06							3.1	
07							3.1	
08							2.6	
09							2.1	3.3
10							1.8	
11		5.1					2.2	
12								
13								
14								
15								3.3
16								
17	245						3.1	3.3
18							2.5	
19							3.1	
20	295						3.1	
21							3.2	
22							3.1	
23							3.2	

Time: 1500°.

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Table 21.

(Corrections and additions to previously published provisional data).

Churchill, Canada (53.30°N, 94.20°W) January, 1945

Time	h ^h m ^m	f [°] F	MFL	MFL	MFL	f [°] E	f [°] E	F2-M3000
00	370	3.1					5.0	
01	305						4.8	
02	280	3.2					3.9	
03	280						3.8	
04	305						3.6	
05	330						3.8	
06	320						3.3	
07	310						3.9	
08	310						3.6	
09	250	3.8			110	2.9	3.1	
10	250				110	2.8		
11	250			230	3.0	2.8		
12	250			230	3.2	2.8		
13	260			240	3.3	2.7		
14	250	6.4		240	3.3	2.6		
15	240	5.4		230	2.7	2.7		
16	240	5.1						
17	240							
18	265	3.6			120	2.6	2.7	
19	290						2.7	
20	320						3.6	2.9
21	300						3.0	
22	285						3.8	3.1
23	280						4.1	

Time: 1500°.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 22

(Corrections and additions to previously published provisional data).

Burl, Hawaii (20.0°N, 155.5°W) January, 1945

Time	h ^h m ^m	f [°] F	MFL	MFL	MFL	f [°] E	f [°] E	F2-M3000
00		3.3						
01								3.3
02	235							
03								
04								3.6
05								
06								
07								
08	235							
09								
10	250							
11					10h			
12								
13								
14		11.7			135			
15								3.3
16								
17				210	3.3	130		
18	205							3.3
19	205							3.4
20								3.4
21	225							3.7
22								
23								2.9

Time: 1500°.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 23

(Corrections and additions to previously published provisional data).

San Francisco, Calif. (37.40°N, 122.20°W) January, 1945

Time	h ^h m ^m	f [°] F	MFL	MFL	MFL	f [°] E	f [°] E	F2-M3000
00	260						2.5	
01	260						2.4	
02	260						2.4	
03	250						2.4	3.2
04	255						2.3	3.2
05	260						2.3	
06	260						2.4	
07	240						2.4	
08	230						3.0	
09	240			250	2.6	110	1.8	
10	240			215	3.4	110	2.4	
11	265			240	4.0	110	2.8	
12	260			230	4.1	110	3.0	
13	260			220	4.2	110	3.1	
14	260	7.4		220	4.1	110	3.0	
15	250			220	3.9	110	2.9	
16	240			240	3.8	110	2.7	
17	220			240	3.2	110	2.2	
18	220					120	1.8	
19	230						2.6	
20	240						2.5	
21	270						2.6	
22	270						2.4	
23	270						2.4	

Time: 1120°.

Length of time sweep: 0.3 Mc to 12 Mc in six minutes. Record centered on the hour.

Table 24

Guam I. (13.50°N, 144.80°E)

January, 1945

Time	h ^h m ^m	f [°] F	MFL	MFL	MFL	f [°] E	f [°] E	F2-M3000
00								
01								
02								
03								
04								
05								
06								1.6
07								2.4
08								3.1
09								2.9
10				212	4.27			2.6
11					4.48			2.6
12								2.7
13								2.8
14								2.9
15				233	4.67			3.0
16								3.1
17								3.3
18								3.4
19								3.4
20								3.4
21								3.4
22								3.1
23								3.2

Time: 1500°.

Length of time sweep: 10000 cycles.

Table 26

(Corrections and additions to previously published provisional data).

Huancayo, Peru (12.0°S, 75.3°W)

11-27 January, 1945

[illegible]

Time: 750:..

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Table 28

Kermadec Is. (29.2°S, 177.9°W)

January, 1945

name	hiv	5'2"	5'4"	5'6"	5'8"	5'10"	6'0"	6'2"	6'4"	6'6"	6'8"	6'10"	7'0"	7'2"	7'4"	7'6"	7'8"	8'0"	8'2"	8'4"	8'6"	8'8"	8'10"	9'0"	9'2"	9'4"	9'6"	9'8"	10'0"	10'2"	10'4"	10'6"	10'8"	11'0"	11'2"	11'4"	11'6"	11'8"	12'0"	12'2"	12'4"	12'6"	12'8"	13'0"	13'2"	13'4"	13'6"	13'8"	14'0"	14'2"	14'4"	14'6"	14'8"	15'0"	15'2"	15'4"	15'6"	15'8"	16'0"	16'2"	16'4"	16'6"	16'8"	17'0"	17'2"	17'4"	17'6"	17'8"	18'0"	18'2"	18'4"	18'6"	18'8"	19'0"	19'2"	19'4"	19'6"	19'8"	20'0"	20'2"	20'4"	20'6"	20'8"	21'0"	21'2"	21'4"	21'6"	21'8"	22'0"	22'2"	22'4"	22'6"	22'8"	23'0"	23'2"	23'4"	23'6"	23'8"	24'0"	24'2"	24'4"	24'6"	24'8"	25'0"	25'2"	25'4"	25'6"	25'8"	26'0"	26'2"	26'4"	26'6"	26'8"	27'0"	27'2"	27'4"	27'6"	27'8"	28'0"	28'2"	28'4"	28'6"	28'8"	29'0"	29'2"	29'4"	29'6"	29'8"	30'0"	30'2"	30'4"	30'6"	30'8"	31'0"	31'2"	31'4"	31'6"	31'8"	32'0"	32'2"	32'4"	32'6"	32'8"	33'0"	33'2"	33'4"	33'6"	33'8"	34'0"	34'2"	34'4"	34'6"	34'8"	35'0"	35'2"	35'4"	35'6"	35'8"	36'0"	36'2"	36'4"	36'6"	36'8"	37'0"	37'2"	37'4"	37'6"	37'8"	38'0"	38'2"	38'4"	38'6"	38'8"	39'0"	39'2"	39'4"	39'6"	39'8"	40'0"	40'2"	40'4"	40'6"	40'8"	41'0"	41'2"	41'4"	41'6"	41'8"	42'0"	42'2"	42'4"	42'6"	42'8"	43'0"	43'2"	43'4"	43'6"	43'8"	44'0"	44'2"	44'4"	44'6"	44'8"	45'0"	45'2"	45'4"	45'6"	45'8"	46'0"	46'2"	46'4"	46'6"	46'8"	47'0"	47'2"	47'4"	47'6"	47'8"	48'0"	48'2"	48'4"	48'6"	48'8"	49'0"	49'2"	49'4"	49'6"	49'8"	50'0"	50'2"	50'4"	50'6"	50'8"	51'0"	51'2"	51'4"	51'6"	51'8"	52'0"	52'2"	52'4"	52'6"	52'8"	53'0"	53'2"	53'4"	53'6"	53'8"	54'0"	54'2"	54'4"	54'6"	54'8"	55'0"	55'2"	55'4"	55'6"	55'8"	56'0"	56'2"	56'4"	56'6"	56'8"	57'0"	57'2"	57'4"	57'6"	57'8"	58'0"	58'2"	58'4"	58'6"	58'8"	59'0"	59'2"	59'4"	59'6"	59'8"	60'0"	60'2"	60'4"	60'6"	60'8"	61'0"	61'2"	61'4"	61'6"	61'8"	62'0"	62'2"	62'4"	62'6"	62'8"	63'0"	63'2"	63'4"	63'6"	63'8"	64'0"	64'2"	64'4"	64'6"	64'8"	65'0"	65'2"	65'4"	65'6"	65'8"	66'0"	66'2"	66'4"	66'6"	66'8"	67'0"	67'2"	67'4"	67'6"	67'8"	68'0"	68'2"	68'4"	68'6"	68'8"	69'0"	69'2"	69'4"	69'6"	69'8"	70'0"	70'2"	70'4"	70'6"	70'8"	71'0"	71'2"	71'4"	71'6"	71'8"	72'0"	72'2"	72'4"	72'6"	72'8"	73'0"	73'2"	73'4"	73'6"	73'8"	74'0"	74'2"	74'4"	74'6"	74'8"	75'0"	75'2"	75'4"	75'6"	75'8"	76'0"	76'2"	76'4"	76'6"	76'8"	77'0"	77'2"	77'4"	77'6"	77'8"	78'0"	78'2"	78'4"	78'6"	78'8"	79'0"	79'2"	79'4"	79'6"	79'8"	80'0"	80'2"	80'4"	80'6"	80'8"	81'0"	81'2"	81'4"	81'6"	81'8"	82'0"	82'2"	82'4"	82'6"	82'8"	83'0"	83'2"	83'4"	83'6"	83'8"	84'0"	84'2"	84'4"	84'6"	84'8"	85'0"	85'2"	85'4"	85'6"	85'8"	86'0"	86'2"	86'4"	86'6"	86'8"	87'0"	87'2"	87'4"	87'6"	87'8"	88'0"	88'2"	88'4"	88'6"	88'8"	89'0"	89'2"	89'4"	89'6"	89'8"	90'0"	90'2"	90'4"	90'6"	90'8"	91'0"	91'2"	91'4"	91'6"	91'8"	92'0"	92'2"	92'4"	92'6"	92'8"	93'0"	93'2"	93'4"	93'6"	93'8"	94'0"	94'2"	94'4"	94'6"	94'8"	95'0"	95'2"	95'4"	95'6"	95'8"	96'0"	96'2"	96'4"	96'6"	96'8"	97'0"	97'2"	97'4"	97'6"	97'8"	98'0"	98'2"	98'4"	98'6"	98'8"	99'0"	99'2"	99'4"	99'6"	99'8"	100'0"																																																																																																																																													
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Time; Local.

Length of time sweep: 1.8 Mc to 12.8 Mc. Maximal operation.

Table 25

Kwajalein Atoll (9.2°N, 167.5°E)

11-27 January, 1945

[illegible]

Time: 180°E.

Length of time sweep: Manual operation.

Table 27

Hitcairn I. (25.0°S, 130.0°W)

January, 1945

Time	REC	f ₁₀	h ₁₀	f ₀₁	f ₁₂	f ₀₂	F2-N3000
00							
01	265	4.70					
02							
03							
04	248	3.92					
05							
06	274	6.60	284	4.53			
07							
08	337	8.77	280	4.61			
09							
10	348	9.97	210	4.67			
11							
12	312	10.47	228	4.61			
13							
14	263	9.99	219	4.45			
15							
16							
17							
18	296	5.81					
19							
20							
21	306	5.95					
22							
23							

Time: 150⁰⁰W.

Length of time sweep: Manual operation.

Table 29

Christchurch, N.Z. (43.5°S, 172.6°E) January, 1945

Time	Miles	SW	SE	FW	FL	FE	FEs	FWs
00	260	5.0					3.5	
01	255	4.6					3.6	
02	250	4.0					3.6	
03	250	3.5					2.9	
04	250	3.1					2.9	
05	250	3.7				100	1.7	
06	280	4.6			3.5	100	2.2	
07	310	5.2			220	95	2.5	
08	300	5.7			4.2	95	2.7	
09	300	6.1			4.5	100	3.0	
10	315	6.1			4.5	100	3.2	
11	330	6.1			4.5	100	3.4	
12	340	6.3			4.6	100	3.5	
13	330	6.1			4.5	100	3.5	
14	340	6.0			4.5	100	3.4	
15	320	6.0			4.5	100	3.3	
16	315	6.1			4.2	100	3.3	
17	300	6.3			225	4.0	2.7	
18	280	6.5			3.5	100	2.3	
19	250	6.1			2.7	100	1.8	
20	250	6.0					4.0	
21	250	6.2					4.0	
22	270	5.8					3.9	
23	250	5.4					3.5	

Time: 172.5°E.
Length of time sweep: 2.5 Mc to 12 Mc in two minutes.

Table 31

(Corrections and additions to previously published provisional data)

Rekjavik, Iceland (64.1°N, 21.7°W) December, 1944.

Time	Miles	SW	SE	FW	FL	FE	FEs	FWs
00	-	-	-	-	-	-	4.1	-
01	-	-	-	-	-	-	3.6	-
02	-	-	-	-	-	-	3.4	-
03	303	3.70	-	-	-	2.9	3.7	2.9
04	-	-	-	-	-	-	2.4	-
05	-	-	-	-	-	-	3.1	-
06	-	-	-	-	-	-	-	-
07	-	-	-	-	-	-	-	-
08	-	-	-	-	-	-	-	-
09	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-
17	-	3.07	-	-	-	-	3.3	-
18	-	-	-	-	-	-	2.6	-
19	-	-	-	-	-	-	3.3	-
20	-	-	-	-	-	-	4.0	-
21	-	-	-	-	-	-	4.0	-
22	-	-	-	-	-	-	4.0	-
23	-	-	-	-	-	-	3.6	-

Time: 18°.
Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 30

Campbell I. (52.5°S, 169.0°E) January, 1945

Time	Miles	SW	SE	FW	FL	FE	FEs	FWs
00								
01								
02								
03								
04								
05	249	4.37			3.14	109	2.19	
06								
07	275	4.50			3.88			
08								
09	314	5.43			4.24	101	3.19	
10								
11	328	5.45			4.47	101	3.27	
12	330	5.66			4.43	100	3.31	
13	345	5.50			4.57	102	3.39	
14								
15	321	5.70			4.28	102	3.19	
16								
17	300	5.75			3.91	105	2.84	
18								
19	255	5.82			3.30	111	2.24	
20								
21	244	5.60						
22								
23								

Time: 165°E.
Length of time sweep: 1 Mc to 12 Mc. Manual operation.

Table 32

(Corrections and additions to previously published provisional data)

Burghead, Scotland (57.7°N, 3.5°W) December, 1944

Time	Miles	SW	SE	FW	FL	FE	FEs	FWs
00								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Time: Local.

Table 33

Sverdlovsk, U.S.S.R. (56.7°N, 61.1°E) December, 1944

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'E	f ^o E	fEs	F2-M3000
00	250	2.7						
01	250	2.8						
02	250	2.9						
03	240	2.8						
04	250	2.6						
05	240	2.5						
06	240	2.3						
07	240	2.3						
08	200	3.6						
09	200	5.2			110	1.9		
10	200	5.8			110	2.0		
11	200	5.9			110	2.2		
12	200	6.2			110	2.2		
13	200	6.2			110	2.2		
14	190	5.7			110	2.0		
15	190	4.9			110	1.9		
16	190	4.2			110	1.8		
17	200	3.3						
18	230	2.5						
19	230	2.4						
20	250	2.2						
21	250	2.3						
22	250	2.4						
23	250	2.5						

Time: 60°E.

Table 35

(Corrections and additions to previously published provisional data)

Maui, Hawaii (20.8°N, 156.5°W) December, 1944

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'E	f ^o E	fEs	F2-M3000
00								3.0
01								3.3
02								3.3
03								3.3
04								3.1
05								
06								
07								
08								
09	265							
10								
11								
12					110			
13							4.5	
14							3.9	
15							4.1	
16							3.7	
17							3.6	
18							3.6	
19							3.7	3.4
20		3.89					3.6	3.2
21							3.4	
22							2.8	
23							2.6	3.0

Time: 150°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 34

Slough, England (51.5°N, 0.6°W) December, 1944

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'E	f ^o E	fEs	F2-M3000
00		2.69						
01		2.67						
02		2.60						
03		2.34						
04		2.23						
05		2.03						
06		1.96						
07		1.95						
08		3.81						
09		5.03						
10		5.66						
11		5.80						
12		5.95						
13		5.95						
14		5.84						
15		5.50						
16		4.83						
17		3.68						
18		3.15						
19		2.59						
20		2.56						
21		2.59						
22		2.59						
23		2.75						

Time: 0°

Length of time sweep: 0.5 Mc to 16 Mc in four minutes.

Table 36

Guam I. (13.5°N, 144.8°E) December, 1944

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'E	f ^o E	fEs	F2-M3000
00	258	4.47					1.5	3.0
01	238	4.55					3.3	3.3
02	233	3.49					1.6	3.2
03	254	3.30					3.1	3.1
04	305	3.31					3.0	3.0
05	320	3.09					3.0	3.0
06	303	3.01					1.3	3.0
07	257	4.94					2.0	3.1
08	244	7.34	240	3.8		2.7	3.4	3.1
09	281	8.60	218	4.28		3.18	4.2	3.1
10	294	8.83	210	4.55		3.47	3.5	2.9
11	313	8.95	208	4.62		3.60	4.8	2.7
12	336	8.36	219	4.63		3.7	4.8	2.7
13	325	9.20	216	4.64		3.80	4.8	2.8
14	308	9.45	215	4.58		3.62	2.8	2.8
15	265	9.86	222	4.44		3.4	4.4	2.9
16	275	9.88	228	4.25		2.8	4.4	3.0
17	248	9.81					3.7	3.1
18	224	9.43					3.6	3.3
19	232	8.54					3.6	3.1
20	236	8.06					2.6	3.1
21	238	7.22					3.0	3.3
22	232	5.63					2.0	3.2
23	254	4.69					1.5	3.0

Time: 150°E.

*24-31 Dec.

**17-31 Dec.

Table 37

(Corrections and additions to previously issued provisional data)

Brisbane, Q., Australia (27.6°S, 153.0°E) December, 1944

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	F2-MJ000
00	270	6.31				4.1	3.2
01	264	5.80				3.3	
02	259	5.31				3.3	
03	272	4.56					3.3
04	258	4.16					
05	246	4.45					
06	237	5.35	234				
07	232	5.62	223			2.68	4.2
08	311	6.08		4.06		3.00	5.6
09	313	6.61		4.38	112	3.20	6.6
10	339	6.89		4.54	111	3.20	6.6
11	347	7.45	197	4.64	110	3.36	6.6
12	346	7.90	197	4.69	110	3.42	7.1
13	338	7.89	214	4.72	110	3.45	5.1
14	317	8.22	222	4.65	110	3.43	5.6
15	300	8.22	215	4.49	111	3.33	4.1
16	283	8.00	221	4.45	114	3.14	4.3
17	268	7.34	222	4.24	120	2.89	4.3
18	259	6.94				2.42	4.9
19	270	6.53				4.8	4.8
20	291	6.57				4.4	4.4
21	293	6.61				4.2	4.2
22	292	6.50				4.7	4.7
23	283	6.53				5.2	5.2

Time: 150°E.

Length of time sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds.

Table 39

(Corrections and additions to previously published data)

Watharrloo, Western Australia (30.3°S, 115.9°E) December, 1944

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	F2-MJ000
00						4.3	
01						5.2	
02						4.4	
03						4.0	
04						3.8	
05						3.0	3.0
06						3.8	
07						5.0	
08						4.6	
09						5.0	
10						5.0	
11						5.2	
12						5.4	
13						5.0	
14						5.0	
15						5.0	
16						4.9	
17						4.2	
18						3.8	
19						3.1	
20						3.2	
21						3.0	
22						3.1	2.8
23						3.9	

Time: 120°E.

Length of time sweep: 16 Mc to 0.6 Mc in fifteen minutes.

Table 38

(Corrections to previously published provisional data)

Kermadec Is. (29.2°S, 177.9°E) December, 1944

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	F2-MJ000
0010							
01							
02							
0310							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
1350							
20							
21							
22							
23							

Time: Local

Length of time sweep: 1.8 Mc to 12.3 Mc. Manual operation.

Table 40

(Corrections and additions to previously published provisional data)

Mt. Stromlo, N.S.W., Australia (35.3°S, 149.0°E) December, 1944

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	F2-MJ000
00	281	5.41					
01	275	5.00					
02	269	4.53					3.0
03	280	3.78					
04	282	3.40					
05	264	3.62					3.0
06	268	4.42	230		3.48	2.19	
07	286	5.01	232		3.78	112	
08	316	5.38	220		4.04	108	
09	336	5.74	208		4.11	107	
10	339	6.04	213		4.35	108	
11	352	6.28			4.50	107	
12	342	6.45	209		4.45	105	
13	346	6.34	210		4.41	104	
14	343	6.52	214		4.28	106	
15	320	6.63	216		4.19	106	
16	310	6.59	221		4.06	108	
17	299	6.34	235		3.84	111	
18	272	6.19	247		3.40	120	
19	253	6.09					3.6
20	270	6.04					
21	282	5.81					
22	293	5.71					
23	286	5.68					

Time: 150°E.

Length of time sweep: 1.6 Mc to 12.5 Mc in two minutes.

Table 41

(Corrections and additions to previously published provisional data)

Christchurch, N.Z. (43.5°S, 172.6°E) December, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00							3.2	
01							2.9	
02	247						3.0	
03							3.0	
04							3.2	
05							3.0	
06							3.6	
07							5.1	
08							5.7	
09							6.0	
10							5.5	
11							5.5	
12							4.6	
13							4.8	
14							3.8	
15							4.0	
16							6.2	
17							4.6	
18							4.2	
19						1.75	4.4	
20							3.4	
21							3.6	
22							3.5	
23							3.5	

Time: 172.5°E.

Length of time sweep: 2.5 Mc to 12 Mc in two minutes.

Table 43

(Corrections and additions to previously published provisional data)

Reykjavik, Iceland (64.1°N, 21.7°W) November, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00	-	-					3.0	-
01	-	-					3.1	-
02	-	-					3.1	-
03	-	-						-
04	-	-						-
05	-	-						-
06	-	-						-
07								
08	214							
09								
10								
11					-	-		
12								
13								
14								
15								
16								
17								
18								3.4
19							3.0	
20							3.0	
21							3.6	
22								
23								

Time: 15°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 42

Campbell I. (52.5°S, 169.0°E) December, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00								
01								
02								
03								
04								
05	251	4.19						
06								
07			229	4.06	109	2.80		
08								
09			219	4.32	112	3.20		
10								
11			204	4.36	105	2.92		
12			226	4.39	106	3.03		
13								
14								
15	320	5.95	207	4.29	109	3.09		
16								
17	298	6.34	219	3.97	111	2.73		
18								
19	267	5.67						
20								
21	262	5.32						
22								
23								

Time: 165°E.

Length of time sweep: 1 Mc to 12 Mc. Manual operation.

Table 44

(Corrections and additions to previously published provisional data)

Burghead, Scotland (57.7°N, 3.6°W) November, 1944

Time	h'F2	f°F2	h'F1	f°F1	h'E	f°E	fEs	F2-M3000
00		2.18						
01		2.15						
02		2.12						
03		2.24						
04		2.20						
05		2.06						
06		1.91						
07		2.29						
08		3.87						
09		4.85						
10		5.57						
11		5.76						
12		5.88						
13		5.80						
14		5.53						
15		5.34						
16		4.91						
17		4.47						
18		3.83						
19		3.25						
20		2.50						
21		2.81						
22		2.84						
23		2.34						

Time: 0°

Table 45

(Corrections and additions to previously published provisional data)

Slooth, England (51.5°N, 0.8°E)

November, 1944

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'E	f ^o E	fEs	F2-M3000
00		3.02						
01		2.99						
02		2.96						
03		2.94						
04		2.94						
05		2.96						
06		2.99						
07		3.02						
08		4.08						
09		5.55						
10		6.03						
11		6.43						
12		6.83						
13		6.03						
14		6.04						
15		5.84						
16		5.22						
17		4.31						
18		3.71						
19		3.14						
20		2.67						
21		2.59						
22		2.84						
23		2.38						

Time: 00

Length of time sweep: 0.5 Mc to 16 Mc in four minutes.

Table 47

(Corrections and additions to previously published provisional data)

Watheroo, Western Australia (30.3°S, 115.5°E)

November, 1944

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'E	f ^o E	fEs	F2-M3000
00	261	4.42					3.0	2.9
01	246	4.28					3.0	
02	249	3.87						
03	242	3.45					3.2	3.0
04	244	3.10					2.8	
05	242	3.53					2.3	3.2
06	245	4.62						
07	289	5.18					4.1	
08	320	5.85					4.6	
09	324	5.32					5.1	
10	340	6.32					5.1	
11	334	6.32					5.8	
12	322	7.51					5.0	2.5
13	317	3.01					3.23	
14	303	6.23					5.0	
15	294	8.03					5.1	
16	281	7.74					4.5	
17	264	7.23					4.0	3.1
18	244	6.70					3.4	
19	256	6.25					3.1	
20	234	5.70					3.0	
21	246	5.07					2.8	
22	262	4.77					3.1	
23	265	4.52					3.2	

Time: 1.30 p.m.

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Table 46

(Corrections and additions to previously published provisional data)

Delhi, India (28.6°N, 77.2°E)

November, 1944

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'E	f ^o E	fEs	F2-M3000
00		2.36						
01		2.80						
02		2.74						
03		2.71						
04		2.73						
05		2.75						
06		2.82						
07		2.82						
08		2.85						
09		2.85						
10		2.85						
11		2.85						
12		2.85						
13		2.85						
14		2.85						
15		2.85						
16		2.85						
17		2.85						
18		2.85						
19		2.85						
20		2.85						
21		2.85						
22		2.85						
23		2.85						

Time: 7.05 p.m.

Table 48

(Corrections and additions to previously issued provisional data)

Watheroo, Western Australia (30.3°S, 115.5°E)

October, 1944

Time	h ¹ F2	f ^o F2	h'F1	f ^o F1	h'E	f ^o E	fEs	F2-M3000
00	261	3.91					2.8	
01	268	3.95					2.3	
02	266	3.77					2.7	
03	240	3.40					2.3	
04	257	3.20					2.8	
05	259	3.26					2.3	3.0
06	24	4.44				1.67		
07	286	5.10				2.30	2.9	
08	321	5.49				2.69	3.3	
09	333	5.89				2.94	4.0	
10	333	6.36				3.09	4.0	
11	329	6.80				3.15	3.3	
12	318	7.20				3.15	3.9	
13	309	7.86				3.10	3.3	
14	303	7.12				3.11	3.5	
15	288	6.63				3.00	3.3	
16	284	6.32				2.71	3.7	3.1
17	264	6.05				2.27	3.4	
18	235	5.73				1.53	2.9	
19	233	5.33					2.3	
20	236	4.74					2.8	
21	256	4.20					2.8	2.9
22	263	4.10					2.8	
23	269	3.99					2.8	

Time: 1.00 a.m.

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

TABLE 49
IONOSPHERE DATA--I

National Bureau Of Standards

({rstat})

TIME: 75°W MERIDIAN

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	300	270	240	210	180	150	120	90	60	30	0	30	60	90	120	150	180	210	240	270	300	270	240	210
2	250	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160
3	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160	130
4	300	270	240	210	180	150	120	90	60	30	0	30	60	90	120	150	180	210	240	270	300	270	240	210
5	250	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160
6	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160	130
7	300	270	240	210	180	150	120	90	60	30	0	30	60	90	120	150	180	210	240	270	300	270	240	210
8	250	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160
9	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160	130
10	300	270	240	210	180	150	120	90	60	30	0	30	60	90	120	150	180	210	240	270	300	270	240	210
11	250	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160
12	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160	130
13	300	270	240	210	180	150	120	90	60	30	0	30	60	90	120	150	180	210	240	270	300	270	240	210
14	250	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160
15	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160	130
16	300	270	240	210	180	150	120	90	60	30	0	30	60	90	120	150	180	210	240	270	300	270	240	210
17	250	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160
18	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220	250	280	250	220	190	160	130
19	300	270	240	210	180	150	120	90	60	30	0	30	60	90	120	150	180	210	240	270	300	270	240	210
20	250	280	250	220	190	160	130	100	70	40	10	40	70	100	130	160	190	220						

Ionosphere station

TABLE 50
IONOSPHERE DATA -2

RESTRICTED

National Bureau Of Standards
(Institution)

Hourly values of $f^{\circ}F_2$ in $\{\square\}$ for February 1945
(Month)

Records measured by: **M.R.R.**
A.F.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1.9 ^F	1.9 ^F	2.2 ^F	(2.4) ^F	2.2 ^F	(2.3) ^F	(2.5) ^F	[3.2] ^F	5.0	5.7	6.5	[7.0] ^F	6.6	C	C	6.6	6.6	5.5	4.1	(3.5)	3.2	2.6	2.5	2.6
2	2.7 ^F	2.4 ^F	2.8 ^F	3.1 ^F	3.3 ^F	3.3	3.0 ^F	3.3	5.6	5.3	6.4	(7.0)	(8.0)	(7.6)	(7.8)	7.6	6.8	5.9	5.4	4.7	3.7	3.0	2.8	2.4 ^F
3	2.4 ^F	2.4 ^F	2.6 ^F	2.8 ^F	2.9	2.6 ^F	2.4 ^F	3.0 ^F	5.0	5.6	(7.2)	(7.3)	6.9	(7.4)	6.8	6.8	6.6	5.5	4.8	3.9	2.8 ^F	2.4 ^F	2.3	2.2 ^F
4	2.2 ^F	2.1 ^F	2.2 ^F	(2.5) ^F	2.9 ^F	2.9	2.3	3.0	4.9	(5.1)	5.4	(5.6)	6.7	6.8	6.8	6.4	6.0	6.0	(5.2) ^F	3.9	2.8	2.5	2.1	2.0
5	1.8 ^F	1.7 ^F	1.9 ^F	2.5 ^F	2.6 ^F	(2.5) ^F	1.9 ^F	3.0	5.0	5.0	5.9	(5.8)	6.5	(7.6)	[7.9] ^F	6.4	6.9	6.0	[5.3] ^F	4.6 ^F	3.3	3.1	2.6	2.1 ^F
6	2.5 ^F	3.0 ^F	3.9 ^F	3.3 ^F	3.4	2.8 ^F	(2.6) ^F	3.0	4.6	5.1	5.8	6.0	6.6	6.3	6.2	6.3	6.4	6.4	5.0	(3.6) ^F	3.0	2.3 ^F	2.2 ^F	2.2 ^F
7	2.1 ^F	(2.2) ^F	2.0 ^F	2.0 ^F	2.9 ^F	2.8 ^F	2.7 ^F	3.3 ^F	4.3	5.5	C	C	C	6.1	6.4	6.2	6.0	5.8	4.5	3.9 ^F	3.3 ^F	2.9 ^F	2.8 ^F	2.2 ^F
8	1.8 ^F	1.8 ^F	1.8 ^F	1.6 ^F	1.6 ^F	1.8 ^F	1.9 ^F	2.8 ^F	4.8 ^F	4.8	5.5	6.0	6.0	6.2	6.4	5.8	6.0	5.4	5.5	4.5 ^F	4.2	3.7 ^F	2.3 ^F	2.2 ^F
9	2.1 ^F	2.1 ^F	1.9 ^F	1.7 ^F	(1.9) ^F	1.9 ^F	(2.0) ^F	3.0 ^F	4.7	5.6	[5.3] ^F	5.7	6.4	[6.8] ^F	6.9	5.6	5.8	5.1	5.0	4.4	3.7	3.0	2.5 ^F	2.3 ^F
10	2.2 ^F	2.3 ^F	2.6 ^F	2.7 ^F	2.9 ^F	2.2 ^F	1.8 ^F	2.9 ^F	4.9	5.4	5.7	5.5	5.9	7.2	5.8	6.0	6.2	(6.0)	5.1	3.8 ^F	3.4 ^F	3.0 ^F	2.6 ^F	2.4 ^F
11	2.6 ^F	3.3 ^F	2.8 ^F	2.9 ^F	2.8 ^F	3.1 ^F	3.4	4.0	5.7	(6.2)	5.9	6.6	(6.0)	6.6	7.0	6.4	5.7	5.8	5.0	4.2	3.8	3.3	2.7	2.7 ^F
12	2.6 ^F	2.3 ^F	2.6 ^F	2.8 ^F	3.0 ^F	3.4	3.3	(4.0)	5.5	5.7	6.4	6.4	6.5	7.6	7.4	7.3	6.8	5.7	4.8	3.6	2.8	2.4	2.3	2.4 ^F
13	2.4 ^F	2.6 ^F	2.6 ^F	2.7 ^F	2.7 ^F	2.8 ^F	3.0	3.9	5.7	(6.4)	6.8	6.6	6.4	6.8	7.2	6.8	6.4	6.4	5.3	4.2	3.9	3.1	(3.0)	2.8
14	2.8 ^F	2.8	2.7 ^F	2.2 ^F	2.2 ^F	2.6 ^F	3.3 ^F	4.1	5.8	6.3	6.4	7.4	7.4	[7.8] ^F	7.4	7.3	(7.8)	8.0 ^F	7.2	C	C	C	C	C
15	C	C	C	C	C	C	C	C	C	C	6.4	[8.0] ^F	(7.7)	(8.0)	C	C	[7.7] ^F	7.2	[7.8] ^F	5.0	C	C	(2.8) ^F	2.7 ^F
16	3.3	3.6	3.1	2.9	3.0	2.6	2.5	3.2	4.2 ^F	4.7 ^F	4.7 ^F	5.1 ^F	5.1 ^F	5.0 ^F	5.2 ^F	5.1 ^F	5.1 ^F	5.0	4.4	3.6	3.2	3		

RESTRICTED

TABLE 51
IONOSPHERE DATA-3

Washington, D.C. Ionosphere Station

National Bureau of Standards
(Institution)Hourly values of f^oF_2 for February 1945
(Month)Records measured by: M.R.R.
A.F.

		TIME: 75°W MERIDIAN																						
Day	0030	0130	0230	0330	0430	0530	0630	0730	0830	0930	1030	1130	1230	1330	1430	1530	1730	1830	1930	2030	2130	2230	2330	
1	1.9 F	1.9 F	(1.9) F	(2.2) F	(2.3) F	2.3 F	2.4 F	4.3	5.3	5.4	7.8	6.4	C	C	C	(6.8)	(6.1)	4.9	3.7	3.4	2.9	2.5	2.4	2.6
2	2.6	2.6	3.2	3.2 F	3.4	3.3	2.9	4.6	6.2	6.0	6.8	(8.2) J	(7.6)	(7.8)	(7.6)	6.8	6.0	6.0	5.0	4.3	3.3	3.0	2.6	2.4
3	2.4 F	2.6 F	2.6 F	2.9	2.8	2.4 F	2.5	4.0	5.4	5.6	(5.5)	7.1	6.8	7.4	6.9	6.7	5.9	5.4	4.4	3.2	2.6 F	2.3 F	2.2 F	2.2 F
4	2.1 F	2.3 F	2.3 F	2.6 F	3.0	2.7	2.3	4.0	5.1	5.2	5.4	6.1 J	6.1 J	7.2	7.0	6.3	6.3	5.0	4.7	3.2	2.8	2.4	2.1 F	2.0
5	1.7 F	1.7 F	2.2 F	2.6 F	2.6 F	2.4 F	1.8 F	4.0	5.0	5.9	(6.8)	(7.0)	7.7	(7.4) J	(6.7) J	6.8	5.8	4.9	3.5	3.3	3.0	2.2 F	2.3 F	
6	2.9 F	(3.2) F	3.3 F	3.3 F	3.4	(2.5) F	(2.2) F	4.1	(5.0) C	5.2	5.4	6.3	(6.0) C	6.4	6.5	6.4	5.9	4.9	4.1	3.1	2.4 F	2.1 F	2.2 F	2.1 F
7	2.2 F	2.2 F	2.2 F	(2.8) F	2.8 F	2.6 F	2.8 F	4.0 H	5.0	C	C	C	6.2	5.6	6.4	6.1 J	5.8	4.9	4.0 F	3.6 F	2.9 F	(2.4) F	2.2 F	2.0 F
8	1.7 F	1.9 F	1.8 F	1.6 F	1.7 F	1.7 F	2.0 F	4.1	5.1 H	4.8	5.7	6.2	6.1	6.2	5.8	6.0	5.9	5.5	5.1	4.3 F	3.5 F	3.0	2.2 F	2.1 F
9	2.0 F	1.9 F	1.9 F	1.9 F	2.0 F	(1.9) F	2.1 F	4.3	5.4	5.1	5.5	6.2	6.6	6.9	5.7	5.6	5.6	5.2	4.6	3.8	3.2	2.6 F	2.4 F	2.2 F
10	2.3 F	2.4 F	2.8 F	2.8 F	2.6 F	(1.6) F	1.8 F	4.0	5.0	5.4	5.9	6.1	6.2	6.8	5.8	6.0	5.9	5.1 F	4.4	3.4 F	3.0 F	2.8 F	2.4 F	2.4 F
11	2.9 F	3.3 F	(3.0) F	(3.0) F	2.9 F	3.3 F	3.6	4.9	5.8	(6.4)	6.4	6.4	6.6	7.0	6.3	6.4	6.1	5.5	4.2	4.0	3.6	2.9	2.6 F	2.7 F
12	2.5 F	2.3 F	2.8 F	3.2 F	3.3 F	3.3 F	3.1	4.9	6.2	5.8	6.4	6.5	7.1	7.6	7.0	7.2	6.5	5.2	4.2	3.3	2.3	2.3	2.3 F	2.5 F
13	2.4 F	2.5 F	2.7 F	2.7 F	2.7 F	3.1 F	3.0	4.6	6.6	6.8	6.4	6.6	7.1	(7.4)	(7.0) C	7.0	6.4	5.9	5.0	4.1	3.3	2.9	(2.9)	2.8 F
14	(2.5) F	(2.8)	2.2 F	2.2 F	2.3 F	2.9 F	3.4 F	5.1	6.0	7.2	6.4	7.1	(7.7) C	(7.9) C	7.4	7.2	7.9	(7.8)	C	C	C	C	C	C
15	C	C	C	C	C	C	C	C	C	7.2	6.6	(8.0)	8.6	C	C	(7.4) C	(7.4) K	(7.6)	6.2	4.9	C	C	2.9 F	(3.2)
16	3.5	3.3	3.0	2.8	2.8	2.4	2.2 F	3.6 K	4.8 K	4.6 K	4.6 K	5.0 K	5.3 K	4.9 K	5.2 K	5.1 K	4.8 K	4.8	3.8	3.3	3.0	2.8	2.5	2.3
17	2.2 F	2.3 F	2.4 F	2.7 F	2.9	2.7 F	2.4	4.5	5.2	5.6	5.5	6.4	6.6	6.4	6.2	6.2	6.1	5.7	5.4	4.9	3.4	2.9	2.6 F	2.5 F
18	2.3 F	2.6 F	2.7 F	2.6 F	2.6 F	2.9 F	3.1	4.9	6.2	(5.9)	(6.4)	6.7	7.4	7.4	7.0	6.7	6.8	6.1	5.3	4.7	4.0	3.3	3.0 F	3.1 F
19	3.1 F	3.2 F	3.2 F	3.2 F	3.2 F	3.1 F	3.0 F	5.1	5.7	6.4	6.4	7.2	7.6	7.6	7.4	7.4	7.4	(6.6)	4.9	4.4	3.4	3.2	2.9	2.9
20	2.5	2.5	2.6	2.7	3.0	3.1	3.6	5.5	(6.1)	6.3	6.9	7.4	7.6	7.4	7.6	7.7	7.7	6.6	6.1	5.1	4.2	3.7	3.3	2.9
21	2.6	2.6	2.8	3.0	3.2	3.3	3.4	5.6	6.2	6.3	7.0	6.6	(7.6)	7.5	7.6	7.6	7.1	5.6	4.9	4.9	4.1	3.4	2.7	2.5
22	2.2	2.1	2.3	2.5	2.5	2.8	3.5	5.5	5.7	7.0	(7.3)	7.7	(6.7) C	6.6	7.4	6.6	7.2	6.4	5.8	5.6	4.6	4.2	3.8	3.3
23	2.6	2.2	2.2	(2.6)	2.8	3.0	3.2	4.9	5.4	6.4	6.4	6.8	7.0	7.6	(7.1) C	6.9	6.7	6.0	6.5	5.4	4.5	4.2	3.4	2.7
24	2.3	2.4	2.8	2.9	3.0	3.1	3.3	5.2 H	5.9	6.0	7.4	7.8	7.8	(7.6)	7.2	7.5	7.8 J	6.8	5.4	4.9	4.2	3.8	3.3	3.0
25	3.0	3.2	3.2 F	3.1	2.9 F	2.8 F	2.9	5.6	6.1	6.4	7.5	7.0	7.5	7.6	(7.7)	(7.2)	7.3	6.6	5.1	4.8	4.5	3.7	3.7	2.9 F
26	2.7 F	2.6 F	2.7 F	2.7 F	2.6 F	2.3 F	2.8 F	4.4	5.4	5.8	7.0	(7.9)	7.4	(7.8)	8.6	7.9	7.3	7.8	5.7	4.8	4.6	(4.3) C	(3.7) C	(3.7) C
27	2.7 F	2.9	2.8 F	2.6 F	2.8 F	2.9 F	5.6	5.8	6.4	7.0	6.9	7.2	7.4	7.8	8.6	8.6	8.0 J	7.2	6.6	5.3	3.9 F	3.8	3.7 F	2.6 F
28	2.5 F	2.5 F	2.3 F	(2.6) F	2.4 F	1.9 F	2.8 F	4.8	6.0	(8.2)	(6.9)	7.2	6.8	7.3	6.8	6.8	6.8	6.9	5.8	4.7	4.1	3.4	3.2	3.0
29																								
30																								
31																								
Sum																								
Median	2.5	2.5	2.7	2.7	2.8	2.8	2.9	4.6	5.7	6.0	6.4	6.8	7.1	7.4	7.0	6.8	6.8	5.9	5.0	4.3	3.4	3.0	2.6	2.6

Washington, D.C.
National Bureau Of Standards
(Location)
(Institution)

Ionosphere Station

TABLE 52
IONOSPHERE DATA--4

Hourly values of $h'F_1$ in km for February 1945
(Months)

Records measured by: M.R.R.
A. F.

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1										200	200 ^M	220	C	C	C	220								
2										200	200	200	200 ^M	200 ^M	230	220								
3										200	200	200	200 ^M	220	220	210								
4										200 ^M (200)	200	200	200	220	180 ^M	220 ^M	240							
5										200	220	200	200	180 ^M	200 ^M	240	240							
6										220	220	220	210	240	200 ^M	210	220							
7										240	C	C	C	240	220	220	220							
8										220	220	210	220	220	240	240	220							
9											240	220	200	220 ^M	230	220	220							
10											240	220	220	200	220	220								
11											200	180 ^M	220	200 ^M	200	220 ^M	220							
12										220	200 ^M	200	240	200	220	220								
13										200	220	220	220	200 ^M	220 ^M	240								
14										220	220	220	210	220 ^M	220	220	220							
15										C	230	200	240	220	240	240								
16										280 ^M	220 ^M	220 ^M	220 ^M	240 ^M	240 ^M	220 ^M	240 ^M							
17										220	220	210	200 ^M	220	220	220 ^M	220							
18										220	220	220	220	200	220	220	220							
19										240	240	220	240	240	240	220	240							
20										220	200	240	220	220	220	220	180							
21										220	220	220	220	240	240	240	220 ^M							
22										200	200 ^M	240	220	210	220	220 ^M	220							
23											240	240	220	220	220	220	220							
24										220	220	220	200 ^M	220	220	240	240							
25										220	220	220	210	220	220	230	220							
26									220	220	220	220	220	220	200 ^M	220	210							
27										220	220	210	240	220	220	220								
28										220	240	220	220	220	240	230	240							
29																								
30																								
31																								
Sum										220	220	220	220	220	220	220	220							
Median																								

RESTRICTED

Ionosphere Station

National Bureau Of Standards

(Institution)

TABLE 53
IONOSPHERE DATA -5

Hourly values of $\int_{\text{in}}^{\text{fo}} \text{FI}$ for February 1945
(Month)

RESTRICTED

Records measured by: M. R. R.
A. F.

TIME: 75° W MERIDIAN

[illegible]

RESTRICTED

Records measured by: M.R.R.
A.F.TABLE 54
IONOSPHERE DATA - 6

Washington, D.C. Ionosphere Station

National Bureau of Standards

(Institution)

Hourly values of $h' E_{130}$ for February 1945
(Month)

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1									120	130	130	120	120	C	C	120	120	130						
2									130	130	130	120	120	120	120	120	120	120						
3									130	120	120	120	120	120	120	120	120	120						
4									120	120	120	120	120	120	120	120	120	130						
5									120H	120	120	120	120	120H	120	120	120H	120						
6									120	120	110	120	120	120	120	120	110	140						
7									120	120	C	C	C	120	120	120	110	120						
8									140	120	120	120	120	130	120	120	120	120						
9									120	120	120	120	120	110	120	120	120	120						
10									120H	120H	120	120	120	120	120	120	120	120						
11									120H	120	120	120	130	130	130	120	120	140						
12									140	120	110	120	120H	110	110	120	120	120						
13									120	120	120	120	120H	120	120	120	120	140						
14									130H	120H	120H	120	110	110	110	120	120	120						
15									C	C	110	110	110	120	120	120	120	130						
16									120K	120K	120K	120K	120K	110K	110K	120K	120K	120						
17									120	120	120	120	120	120	120	120	120H	140						
18									120	120	120	120	120	120	120	120	120	120						
19									120H	120	120	120B	120	120	120	120	130	140						
20									130H	120	120	120	120	120	120	120	120H	120						
21									120H	120H	120	120	120	120	120	120	120	120						
22									120	120	120	120	120	120	120	120	120	120						
23									120	120	120	120	120	120	120	110	120	140						
24									120	120	120	120	120	120	120	120	120	120						
25									120	120	120	120	120	120	120	120	120	120						
26									120	120	120	120	120	120	120	120	120	140H						
27									120	120	120	120	120	120	120	120	120	120						
28									110	120	120	120	110	120	120	120	120	120						
29																								
30																								
31																								
Sum									120	120	120	120	120	120	120	120	120	120						
Median									120	120	120	120	120	120	120	120	120	120						

TABLE 56
 IONOSPHERE DATA - 8

TIME: 75°W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3.9	4.2	4.2	3.1	3.0	2.9	2.9	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
2	3.4	3.4	2.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
3	3.0	3.0	2.8	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
4	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
5	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
6	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
7	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
8	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
9	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
10	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
11	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
12	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
13	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
14	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
15	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
16	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
17	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
18	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
19	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
20	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
21	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
22	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
23	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
24	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
25	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
26	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
27	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
28	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
29	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
30	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
31	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Sum	2.4	2.2	1.9	0.9	2.3	2.8	2.3	2.3	2.5	3.0	3.1	*	*	*	3.2	2.7	2.8	2.8	2.4	E	E	E	1.9	E
Median	2.4	2.2	1.9	0.9	2.3	2.8	2.3	2.3	2.5	3.0	3.1	*	*	*	3.2	2.7	2.8	2.8	2.4	E	E	E	1.9	E

* Less than median f_oF

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1.9 ^F	(1.9) ^F	(2.0) ^F	1.9 ^F	(2.3) ^F	(2.3) ^F	J	C	2.4	2.3	2.4	C	2.4	C	2.3	2.3	2.3	2.3	2.3	(2.3)	2.1	2.0	2.0	2.0
2	(2.0) ^F	2.0 ^F	2.0 ^F	(2.0) ^F	2.1 ^F	2.1 ^F	J	2.2	2.4	2.3	2.1	(2.2)	(2.3)	(2.1)	(2.4)	(2.3)	2.4	2.2	2.1	2.2	2.0	2.0	(2.0) ^F	
3	1.9 ^F	1.9 ^F	(2.0) ^F	(1.9) ^F	(2.1) ^F	(2.1) ^F	(2.0) ^F	(2.2) ^F	2.3	2.6	(2.4)	(2.3)	2.3	(2.4)	2.3	2.2	2.4	2.3	2.2	2.3	(2.1) ^F	(2.0) ^F	(2.0) ^F	
4	(2.0) ^F	(1.9) ^F	1.8 ^F	(1.9) ^F	(2.0) ^F	2.4	2.1	2.3	2.4	(2.4)	2.3	(2.2)	2.2	2.2	2.2	2.3	2.2	2.3	J	2.1	2.2	2.1	2.0	
5	(2.0) ^F	1.8 ^F	(1.9) ^F	(1.9) ^F	(2.0) ^F	(2.3) ^F	2.1	2.3	2.4	2.3	2.2	(2.5)	(2.1)	(2.1)	C	2.3	2.2	2.3	C	2.2 ^F	1.9	2.1	(1.9) ^F	
6	(1.8) ^F	(2.0) ^F	(2.0) ^F	(2.0) ^F	2.1	(2.3) ^F	(2.0) ^F	(1.9)	2.3	2.3	2.3	(2.3)	2.3	1.9	2.2	2.1	2.2	2.2	2.2	(2.5) ^F	2.2	(2.1) ^F	(1.9) ^F	
7	(1.9) ^F	(1.9) ^F	(2.0) ^F	(1.9) ^F	(2.0) ^F	(2.1) ^F	(2.1) ^F	(2.1) ^F	2.3	2.3	C	C	C	2.3	2.2	2.1	2.3	2.4	2.1	(2.2) ^F	(2.2) ^F	(2.1) ^F	(2.0) ^F	
8	(2.2) ^F	(2.0) ^F	(2.0) ^F	(2.0) ^F	(2.0) ^F	(2.2) ^F	(2.2) ^F	F	2.4 ^H	2.4	2.2	2.2	2.0	2.2	2.3	2.1	2.2	2.2	2.3	2.1 ^F	2.2	2.0 ^F	(2.2) ^F	
9	(2.1) ^F	(2.0) ^F	(1.9) ^F	(2.1) ^F	(2.1) ^F	(2.3) ^F	(2.0) ^F	(2.2) ^F	2.3	2.4	C	2.1	2.1	C	2.2	2.2	2.1	2.2	2.1	2.1	2.2	1.9 ^F	(2.0) ^F	
10	(2.0) ^F	(1.9) ^F	(2.1) ^F	(2.1) ^F	(2.2) ^F	(2.2) ^F	(2.3) ^F	(2.3) ^F	(2.2)	2.5	2.4	2.5	2.3	2.1	2.3	2.3	2.3	(2.4)	2.2	(2.1) ^F	(2.0) ^F	(2.0) ^F	(1.9) ^F	
11	(1.9) ^F	(1.8) ^F	(1.9) ^F	(2.0) ^F	(2.0) ^F	(2.0) ^F	2.1	2.2	2.3	(2.5)	2.2	2.4	(2.4)	(2.3)	2.2	2.3	2.2	2.3	2.2	2.1	2.1	2.0	2.0 ^F	
12	(2.1) ^F	(1.9) ^F	(1.9) ^F	(2.1) ^F	(2.1) ^F	2.3	2.3	(2.3)	2.4	2.4	2.3	2.3	2.3	(2.2)	2.2	2.2	2.3	2.4	2.2	2.2	1.9	2.1	2.0 ^F	
13	2.1 ^F	1.9 ^F	(2.0) ^F	(2.1) ^F	2.2 ^F	(2.4) ^F	2.2	2.2	2.5	(2.4)	2.3	2.2	2.3	2.2	2.1	2.4	(2.5)	2.3	2.2	2.3	2.2	2.2	(2.1)	
14	(2.0) ^F	1.9	(1.8) ^F	(2.0) ^F	(2.0) ^F	(2.2) ^F	(2.1) ^F	2.3	2.4	2.4	2.3	2.3	2.2	C	2.2	2.2	(2.2)	J	2.2	C	C	C	C	
15	C	C	C	C	C	C	C	C	C	C	2.4	C	(2.2)	(2.4)	C	C	C	2.1	C	2.2	C	(2.1) ^F	1.8 ^F	
16	1.9	2.1	2.1	2.0	2.1	1.9	1.9	2.1	2.2 ^K	2.1 ^K	2.1 ^K	1.9 ^K	1.8 ^K	1.9 ^K	2.1 ^K	2.1 ^K	2.1 ^K	2.1	2.1	2.0	1.9	2.0	1.9	
17	1.9	2.0 ^F	1.9 ^F	1.9 ^F	2.0 ^F	2.0	2.2	2.1	2.3	2.2	2.2	1.9 ^H	(1.9)	2.1	2.1	2.2	2.1	2.1	2.0	2.2	2.0	2.1	2.0	
18	(1.9) ^F	(1.9) ^F	2.1 ^F	(2.0) ^F	(2.0) ^F	(2.0) ^F	2.0 ^F	2.2	2.2 ^H	2.3	2.3 ^H	2.3	2.0	2.0	2.1	2.1	(2.3)	2.2	2.1	2.0	2.1	2.2	2.0 ^F	
19	(2.0) ^F	(2.0) ^F	(1.9) ^F	(1.9) ^F	(2.0) ^F	(2.0) ^F	2.2 ^F	2.2	2.3	(2.4)	2.1	(2.1)	2.0	(2.2)	2.1	2.1	2.2	2.2	2.2	2.0	2.1	2.1	2.0	
20	2.1	2.0	2.0	1.9	2.0	2.0	2.1	2.3	(2.3)	2.4	2.2	2.2	(2.2)	2.1	2.2	(2.2)	2.1	2.2	2.2	2.2	2.1	2.1	2.2	
21	1.9	2.0	1.9	2.0	2.0	2.2	2.3	2.4	2.4	2.3	2.2	2.2	2.0	(2.4)	2.1	(2.2)	2.2	2.1	2.2	2.1	2.2	2.0	2.1	
22	2.1	2.0	1.9	1.9	1.8	1.9	2.2	2.5	2.4	(2.4)	(2.2)	2.2	2.3	2.0	2.1	2.2	2.2	2.2	2.0	2.1	2.0	2.1	2.1	
23	2.2	1.9	1.8	1.9	1.8	2.0	2.3	2.3	2.4	2.1	2.3	2.2	2.1	2.1	2.2	2.2	2.2	2.2	(2.0)	2.1	2.0	2.2	2.1	
24	2.0	1.9	1.9	1.8	1.9	2.0	2.3	2.3	2.4 ^H	2.3	2.2	2.1	2.2	(2.2)	2.1	2.0	(2.1)	(2.3)	2.3	1.9	1.9	2.0	1.9	
25	1.8	1.9 ^F	1.9	2.0	(2.1) ^F	(2.2) ^F	(2.2) ^F	2.3	2.2	2.3	2.2	2.2	(2.2)	(2.2)	2.0	(2.2)	2.1	(2.3)	2.3	2.0	2.1	2.1	2.2	
26	1.9 ^F	1.9 ^F	2.0 ^F	1.9 ^F	2.0	(2.0) ^F	(2.0) ^F	2.2	2.3	2.2	2.0	2.0	(2.2)	2.2	2.1	2.1	2.2	2.1	2.1	2.1	1.9	C	C	
27	(2.0)	2.0 ^F	2.0	1.9 ^F	(2.1) ^F	(2.2) ^F	1.9	2.1 ^H	(2.5)	2.5 ^H	2.2	2.2	2.2	(2.3)	(2.1)	(2.1)	2.1	2.2	2.1	2.3	2.2	(2.0) ^F	(2.0) ^F	
28	(2.0) ^F	(1.9) ^F	(2.0) ^F	(2.0) ^F	(2.0) ^F	(2.1) ^F	(2.2) ^F	2.2	2.4	2.2	(2.4)	(2.4)	(2.3)	2.3	2.1	2.1	2.1	2.2	2.3	2.2	2.1	2.2	(2.0) ^F	
29																								
30																								
31																								
Sum																								
Median	2.0	1.9	2.0	2.0	2.0	2.1	2.2	2.2	2.4	2.3	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.1	2.0	2.0	2.0	

TABLE 58 IONOSPHERE DATA -10

Washington, D.C. Ionosphere Station
National Bureau of Standards
(Location)
(Institution)

RESTRICTED
Records measured by: M.R.R.
A.F.

Hourly values of F2-M3000 for February 1945
(Month)

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2.9 F	2.9 F	2.9 F	2.8 F	3.2 F	3.3 F	J	C	3.5	3.5	3.5	C	3.5	C	C	3.3	3.4	3.4	3.4	3.3	3.1	3.0	3.0	3.0
2	(3.0) F	3.0 F	2.9 F	3.0 F	3.2 F	3.2 F	J	3.4	3.5	3.3	3.2	(3.3)	(3.4)	(3.2)	(3.5)	(3.3)	3.4	3.2	3.2	3.2	3.2	3.1	3.1	(2.9) F
3	2.8 F	2.8 F	(3.0) F	2.9 F	3.1 F	3.1 F	(3.0) F	(3.2) F	3.4	3.6	(3.4)	(3.4)	3.3	(3.5)	3.3	3.3	3.5	3.4	3.3	3.4	(3.1) F	(3.0) F	(3.0) F	(3.0) F
4	(3.0) F	2.8 F	2.8 F	2.9 F	3.0 F	3.5	3.2	3.4	3.5	(3.5)	3.3	(3.3)	3.2	3.2	3.3	3.4	3.2	3.3	J	3.2	3.2	3.1	3.0	2.9
5	(3.0) F	2.7 F	(2.8) F	2.9 F	3.0 F	3.1 F	3.4 F	3.1	3.5	3.3	3.2	(3.2)	(3.2)	(3.2)	C	3.4	3.3	3.3	C	3.2 F	2.9	3.1	3.2	(2.9) F
6	(2.8) F	(3.0) F	(3.1) F	3.1 F	3.2	(3.3) F	3.1 F	(2.9)	3.4	3.4	3.4	(3.3)	3.4	2.9	3.2	3.1	3.3	3.2	3.3	(3.5) F	3.3	(3.1) F	(3.1) F	(2.8) F
7	(2.9) F	3.0 F	3.0 F	3.0 F	(3.0) F	(3.2) F	(3.2) F	(3.2) F	3.4	3.4	C	C	C	3.3	3.3	3.2	3.3	3.5	3.1	(3.3) F	(3.3) F	(3.1) F	(3.0) F	(3.0) F
8	(3.2) F	(2.9) F	3.0 F	3.0 F	(3.0) F	(3.2) F	(3.2) F	F	3.4 H	3.4	3.3	3.3	3.1	3.2	3.3	3.1	3.3	3.2	3.4	3.2 F	3.2	3.3 F	3.0 F	(3.2) F
9	(3.1) F	(3.0) F	(2.9) F	(3.2) F	(3.2) F	(3.3) F	(3.0) F	(3.3) F	3.4	3.5	C	3.2	3.1	C	3.2	3.3	3.2	3.3	3.2	3.2	3.3	3.2	2.9 F	(3.1) F
10	(3.0) F	(3.0) F	(3.1) F	(3.2) F	(3.2) F	(3.3) F	(3.3) F	(3.3) F	(3.3)	3.5	3.5	3.5	3.4	3.2	3.4	3.3	3.4	(3.5)	3.3	(3.2) F	(3.1) F	(3.0) F	(3.0) F	(2.9) F
11	(2.9) F	(2.8) F	2.9 F	3.0 F	3.0 F	3.0 F	3.2	3.2	3.4	(3.6)	3.2	3.5	(3.5)	(3.4)	3.2	3.3	3.2	3.3	3.2	3.1	3.2	3.2	3.1	3.0 F
12	(3.2) F	(2.9) F	2.9 F	(3.2) F	(3.1) F	3.4	3.3	(3.3)	3.4	3.5	3.4	3.4	3.4	(3.2)	3.2	3.2	3.3	3.5	3.2	3.2	3.2	2.8	3.1	3.0 F
13	3.1 F	2.9 F	(3.0) F	(3.2) F	3.3 F	3.4 F	2.2	3.3	3.5	(3.4)	3.4	3.3	3.3	3.2	3.2	3.4	(3.6)	3.4	3.2	3.4	3.2	3.3	(3.2)	3.3
14	(3.0) F	2.9	(2.8) F	(3.0) F	(3.0) F	(3.2) F	(3.1) F	3.3	3.5	3.4	3.4	3.4	3.2	C	3.2	3.2	(3.2)	J	3.3	C	C	C	C	C
15	C	C	C	C	C	C	C	C	C	C	3.5	C	(3.3)	(3.5)	C	C	C	3.2	C	3.2	C	C	(3.1) F	(2.8) F
16	2.9	3.1	3.2	3.0	3.2	2.8	2.9	3.1	3.3 K	3.2 K	3.2 K	2.8 K	2.8 K	2.9 K	3.1 K	3.1 K	3.1 K	3.2	3.1	2.9	2.9	3.0	2.8	2.8
17	2.9	3.0 F	2.9 F	2.8 F	3.0 F	3.0	3.2	3.2	3.4	3.2	3.3	2.8 H	(2.8)	3.1	3.2	3.2	3.2	3.2	3.0	3.2	3.0	3.0	3.2	3.0
18	(2.9) F	(2.9) F	3.1 F	(3.0) F	(3.0) F	(3.0) F	3.1 F	3.2	3.3 H	3.4	3.3 H	3.4	3.1	3.1	3.2	3.2	(3.4)	3.3	3.2	3.0	3.1	3.2	3.1 F	3.1 F
19	(2.9) F	(3.0) F	2.9 F	(3.0) F	(3.0) F	(3.0) F	3.2 F	3.2	3.3	(3.5)	3.2	(3.2)	3.1	(3.3)	3.1	3.1	3.2	3.3	3.3	3.0	3.1	3.1	3.2	3.0
20	3.1	3.0	3.0	2.9	3.0	3.0	3.2	3.4	(3.3)	3.5	3.2	3.2	(3.3)	3.1	3.2	(3.2)	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3
21	2.9	3.0	2.8	3.0	3.0	3.2	3.3	3.4	3.5	3.4	3.3	3.2	3.0	(3.4)	3.1	(3.2)	3.3	3.1	3.2	3.2	3.3	3.3	3.0	3.1
22	3.1	3.0	2.8	2.9	2.8	2.9	3.2	3.5	3.6	(3.4)	(3.2)	3.3	3.4	3.0	3.1	3.2	3.2	3.2	3.0	3.1	3.1	3.1	3.1	3.2
23	3.2	2.9	2.7	2.8	2.8	3.0	3.4	3.4	3.5	3.2	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	(3.0)	3.2	3.2	3.0	3.3	3.1
24	3.0	2.8	2.8	2.8	2.8	3.0	3.3	3.4	3.5 H	3.5	3.2	3.1	3.2	(3.3)	3.1	3.0	(3.2)	(3.4)	3.3	2.9	3.2	2.9	3.1	2.9
25	2.8	2.8 F	2.8	3.0	(3.1) F	(3.2) F	(3.2) F	3.3	3.3	3.3	3.3	3.2	(3.3)	(3.3)	3.0	(3.2)	3.1	(3.4)	3.3	3.0	3.1	3.1	3.1	3.2
26	2.9 F	2.9 F	3.0 F	2.9 F	3.0	(2.9) F	3.1 F	3.3	3.4	3.2	3.1	3.0	(3.3)	3.3	3.2	3.1	3.2	3.1	3.1	3.1	3.0	2.9	C	C
27	(3.0)	3.0 F	3.0	2.9 F	(3.1) F	(3.2) F	2.9	3.1 H	(3.6)	3.6	(3.2) H	3.3	3.2	(3.3)	(3.2)	(3.1)	3.1	3.2	3.1	3.3	3.2	(3.0) F	(3.1) F	(3.0) F
28	(3.0) F	(2.9) F	(3.0) F	(3.1) F	(3.1) F	(3.2) F	(3.3) F	3.3	3.4	3.2	3.2	(3.4)	(3.3)	3.3	3.2	3.1	3.1	3.3	3.4	3.3	3.1	3.3	3.0	(3.0) F
29																								
30																								
31																								
Sum																								
Median	3.0	2.9	2.9	3.0	3.0	3.2	3.2	3.3	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.1	3.1	3.0

Washington, D.C. _____ Ionosphere Station
(Location)

National Bureau Of Standards _____
(Institution)

IONOSPHERE DATA - 12

Hourly values of F1-M3000 for February 1945
(Month)

Records measured by: M.R.R.
A.F.

RESTRICTED

National Bureau Of Standards
(Institution)

Hourly values of FI-M3000 for February 1945
(Month)

Records measured by: M.R.R.
A.F.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1												H	3.8	C	C	3.8								
2													3.7	H										
3												3.7	3.6 ^H	3.6	(3.5)									
4										H		3.8	3.5	C	(3.6) ^H	H								
5														(3.6) ^H	C									
6												3.5	3.8	(3.7)	H									
7											C	C	C		(3.5)									
8											(3.5)	(3.6)	(3.6)	(3.8)										
9												(3.6)		C	3.5	3.8								
10										(3.8)		(3.8)	(3.6)	(3.6)	3.7									
11											3.9	H	3.5	H	3.5									
12											H	(3.7)			(3.7)									
13														H	H									
14												(3.7)		C	3.7									
15										C		3.9												
16									K	K	(3.5) ^H	(3.6) ^K	3.5 ^K	3.5 ^K	3.4 ^K	(3.6) ^K								
17												3.7	(3.7) ^H	3.6	3.6	H								
18												3.6		3.5	3.6									
19														3.5	3.7									
20												(3.5)	(3.6)	3.6	3.6									
21											3.7		(3.5)	3.6	(3.6)	3.6	H							
22										(4.0)	3.8 ^H		3.7	(3.7)	3.7	H								
23											(3.7)	3.6	3.7	3.4	3.6									
24											3.5	3.6	(3.5) ^H	3.7	3.7									
25											(3.5)		3.6	3.6	(3.7)	3.6								
26											(3.5)		3.5	3.7	H	3.6								
27												3.6	3.7	3.7	3.6	3.7								
28												(3.7)	3.6	3.5		3.6								
29																								
30																								
31																								
Sum											3.5	3.6	3.6	3.6	3.6	3.6								
Median																								

Records measured by: **M.R.R.**
A.F.

Records measured by: M.R.R.
A.F.

TABLE 61

IONOSPHERE DATA - 13

Hourly values of E-M1500 for February 1945
(Month)

Washington, D.C.

National Bureau Of Standards

(Institution)

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1									(35)F	(35)	34	38	37	37	C	C	37	37	35					
2									C	(35)	(35)	(37)	37	37	38	38	39	(38)	A					
3									F	A	(39)	37	36	(37)	38	38	40	FA						
4									(33)	38	A	36	37	36	(39)	38	(34)	F						
5									(37)H	(37)	(36)	(38)	38	37	C	38	38H	34						
6									FA	A	C	37	38	C	37	(36)	36	34						
7									F	(36)	C	C	C	38	A	38	(35)F	F						
8									F	(36)	(33)	C	(36)	(38)	38	(38)	(39)	A						
9									F	(35)	(36)	38	37	C	A	37	A	AF						
10									(35)H	(38)H	(36)	(38)	A	A	A	A	A	A						
11									(35)H	34	(35)	(37)	(37)	(38)	36	(38)	36	36						
12									38	(36)	35	36	36H	A	(40)	(38)	40	34						
13									(33)F	34	36	38	37H	38	38	37	39	A						
14									(36)H	36H	37H	38	(37)	C	38	38	36	A						
15									C	C	37	38	38	(39)	38	C	36	36						
16									37K	(37)K	38K	(38)K	(35)K	37K	(38)K	38K	35K	(38)						
17									34	(35)	37	36	36	36	35	37	36H	33						
18									34	A	A	A	A	37	38	34	(37)	39						
19									37H	35	A	B	(36)	39	38	A	A	A						
20									(35)H	(37)	(38)	(35)	(37)	37	A	37	H	(34)						
21									(39)H	36H	(35)	(37)	37	36	38	A	A	38						
22									(35)	37	36	(37)	(37)	37	(37)	38	A	37						
23									36	(38)	38	39	37	39	36	36	36	(36)						
24									37	37	38	A	(37)	37	(39)	(37)	35	37						
25									38	A	(39)	A	39	(38)	A	37	40	A						
26									A	A	A	36	36	(38)	38	39	36	37H						
27									A	A	A	(39)	(37)	38	37	38	(37)	A						
28									(32)	A	(40)	A	(39)	38	37	38	39	(39)						
29																								
30																								
31																								
Sum									36	36	36	37	37	38	38	38	37	36						
Median											36	37	37	38	38	38	37	37						

Table 62

Ionospheric Storminess, February, 1945

Day	Ionospheric Character*		Principal Storms		Magnetic Character**	
	00-12 GCT	12-24 GCT	Beginning GCT	End GCT	00-12 GCT	12-24 GCT
February						
1	3	1			1	1
2	1	1			1	2
3	2	1			2	1
4	2	2			1	1
5	3	2			3	2
6	2	3			3	2
7	3	3			1	1
8	3	3			3	2
9	2	3			3	2
10	2	3			2	1
11	1	2			2	1
12	1	1			2	1
13	1	2			1	0
14	1	0			0	2
15	***	2			4	3
16	0	5	1230	2200	3	3
17	2	3			2	2
18	2	1			2	1
19	1	2			1	1
20	1	1			1	1
21	1	1			1	0
22	2	1			1	2
23	1	1			1	2
24	2	1			2	2
25	1	1			3	2
26	1	2			2	3
27	1	2			2	2
28	1	1			2	1

*Ionosphere character figure (I-figure) for ionospheric storminess at Washington, D.C., during 12-hour period, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

**Average for 12 hours of American magnetic K-figure, determined by a number of observatories, on an arbitrary scale of 0 to 9, representing the greatest disturbance.

***No record.

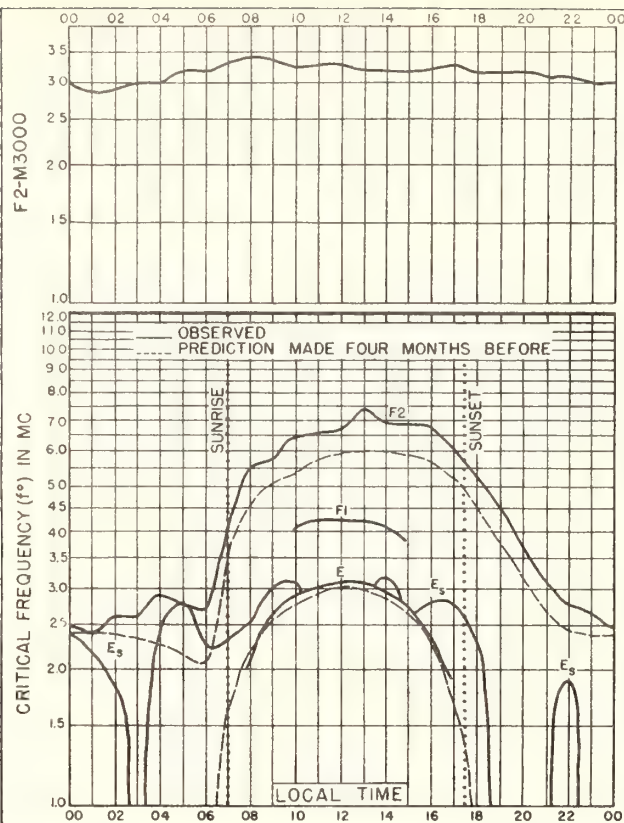


Fig. 1. WASHINGTON, D.C.
39.0°N, 77.5°W

FEBRUARY, 1945

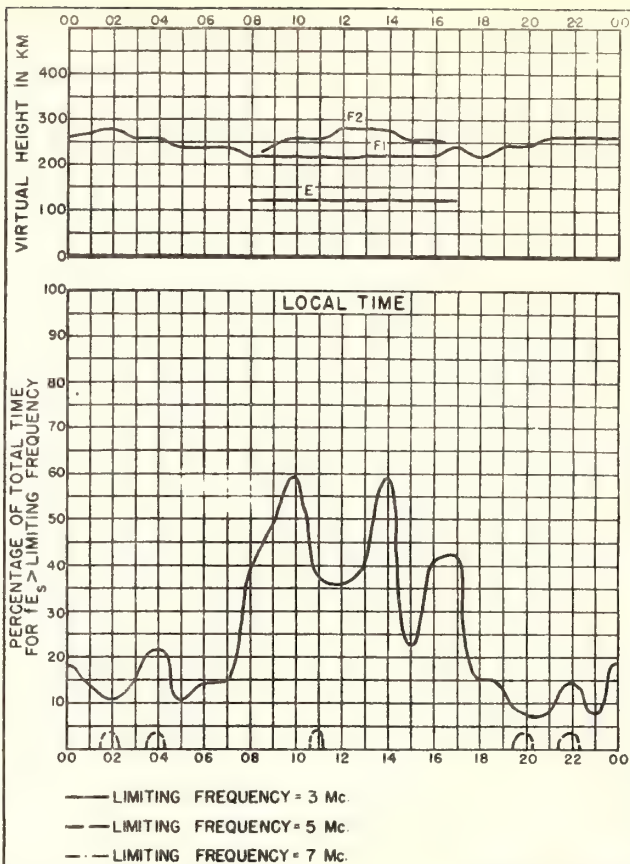


Fig. 2. WASHINGTON, D.C.

FEBRUARY, 1945

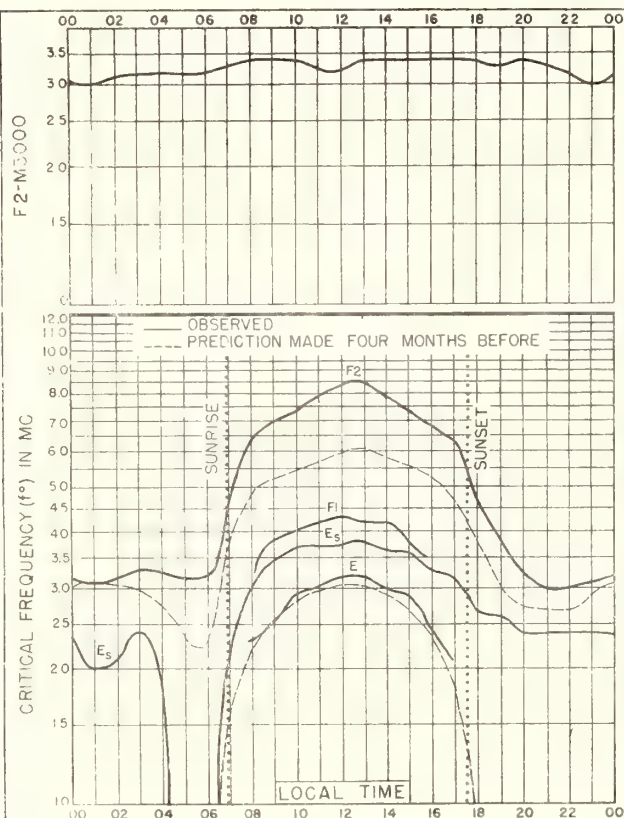


Fig. 3. SAN FRANCISCO, CALIFORNIA
37.4°N, 122.2°W

FEBRUARY, 1945

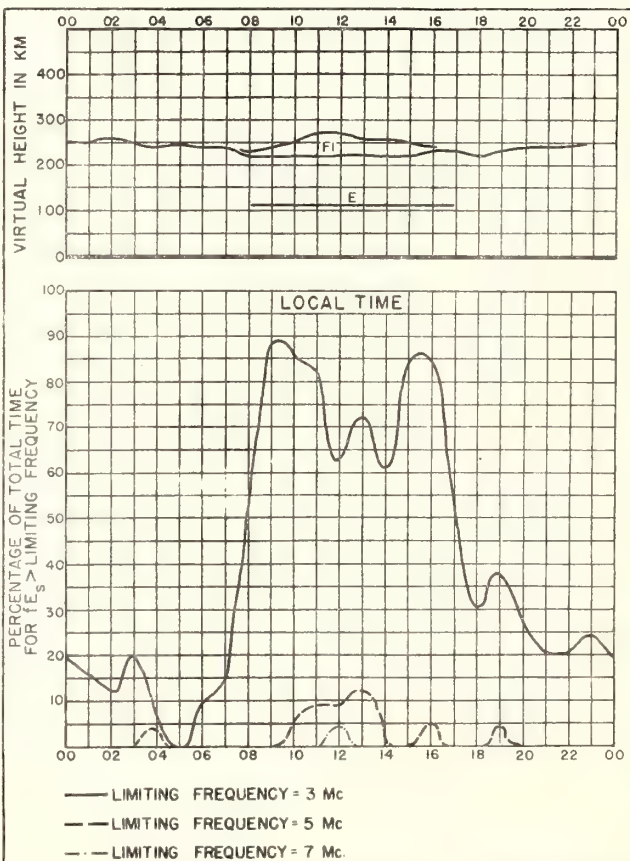


Fig. 4 SAN FRANCISCO, CALIFORNIA

FEBRUARY, 1945

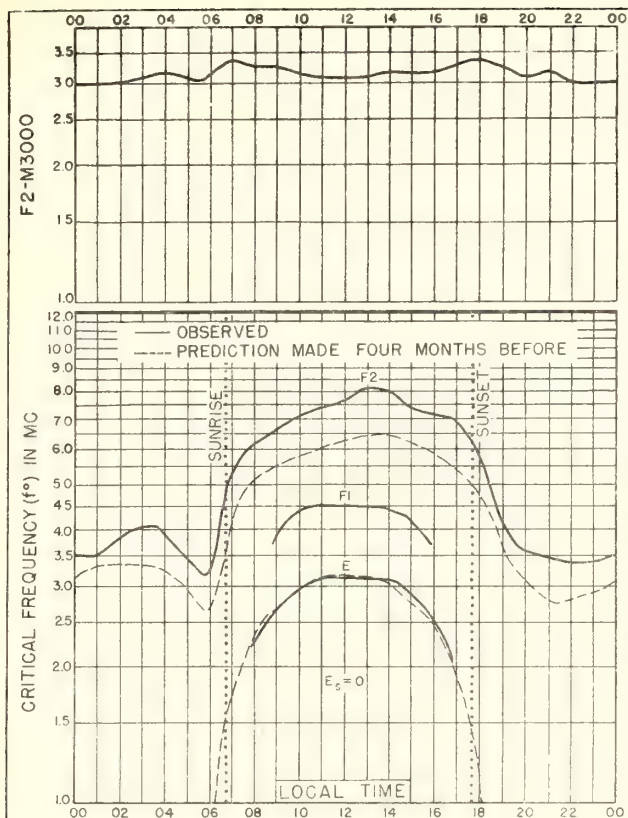


Fig 5 BATON ROUGE, LOUISIANA
30.5°N, 91.2°W
FEBRUARY, 1945

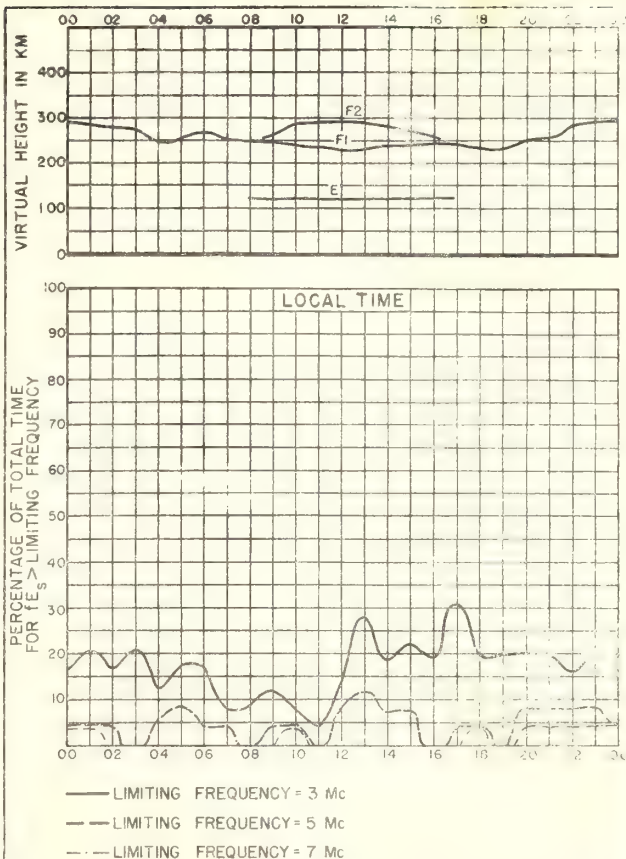


Fig. 6. BATON ROUGE, LOUISIANA
FEBRUARY, 1945

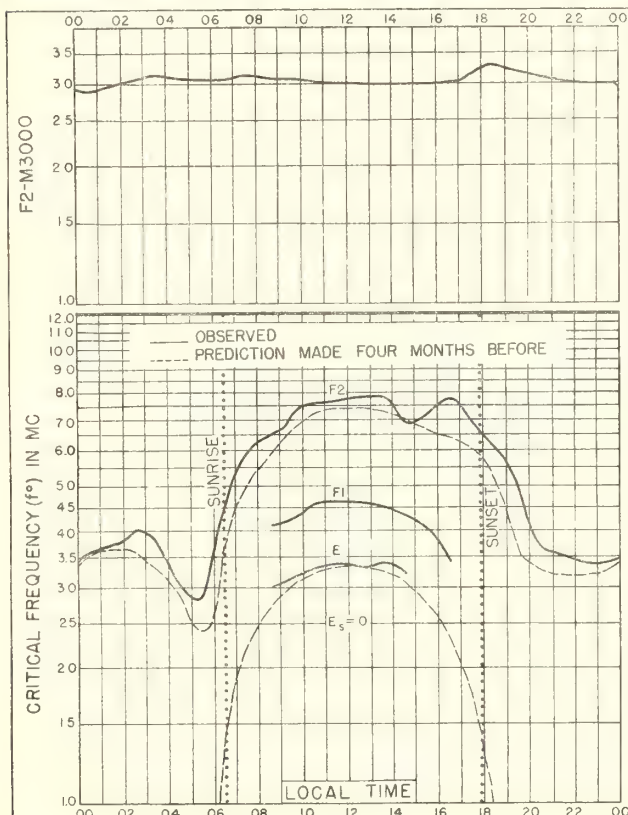


Fig. 7 SAN JUAN, PUERTO RICO
18.4°N, 66.1°W
FEBRUARY, 1945

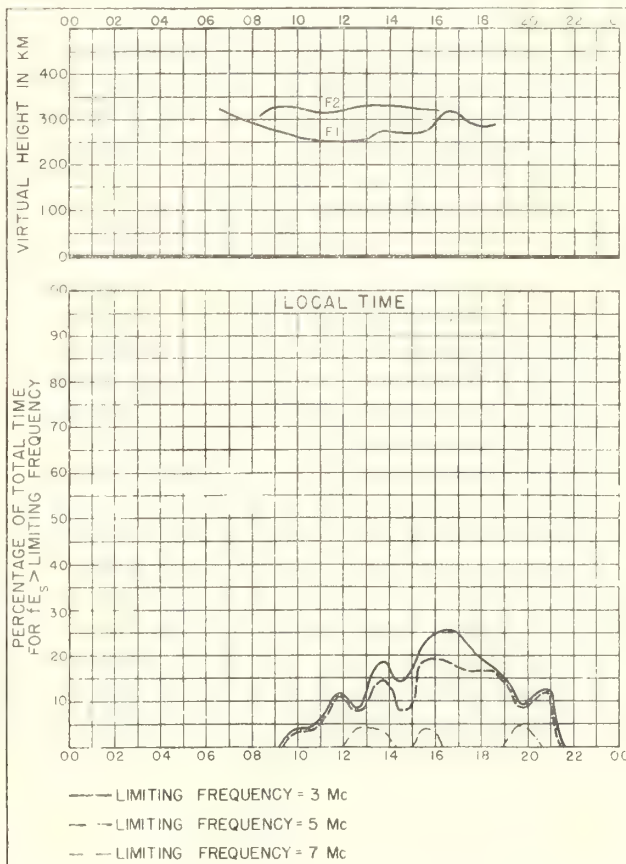
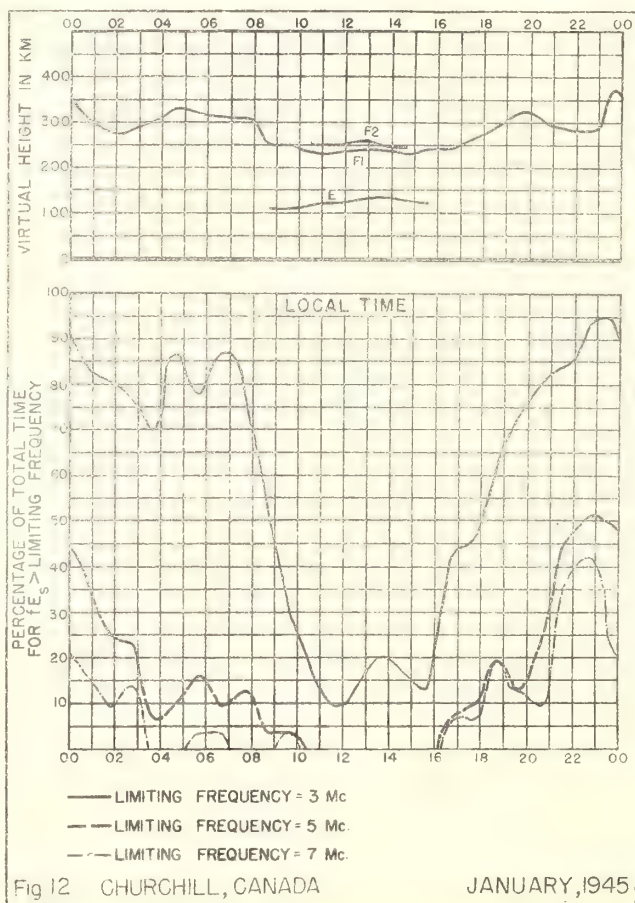
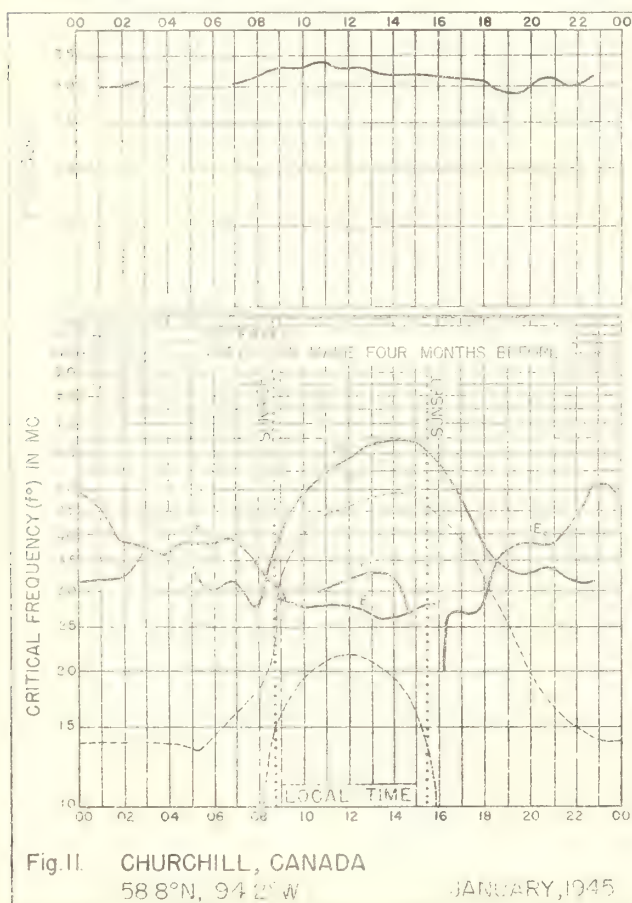
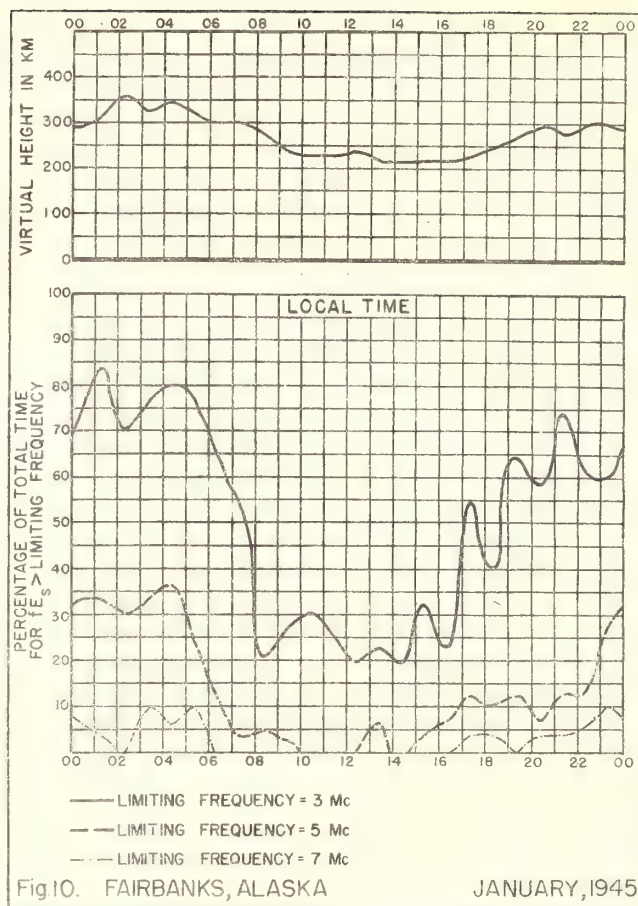
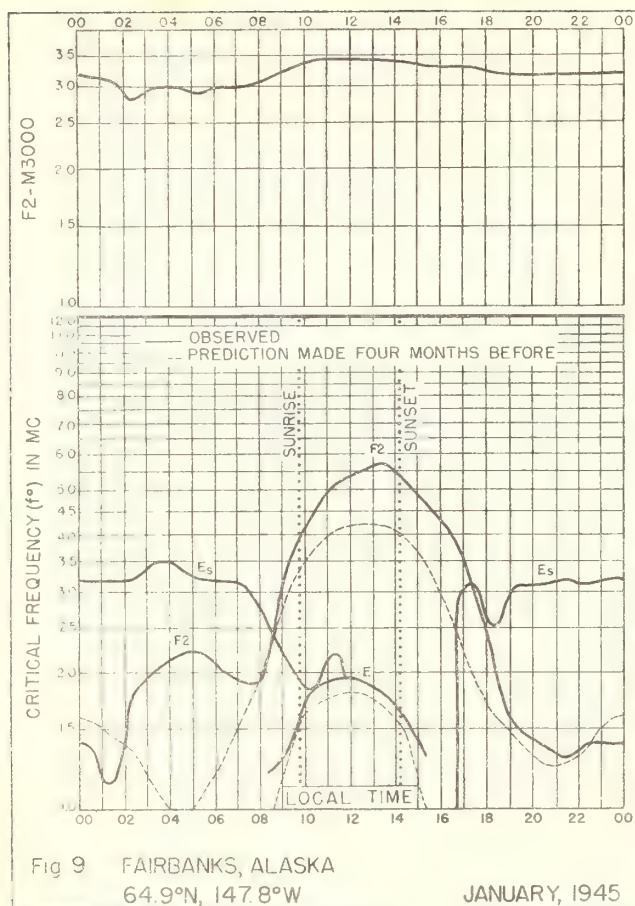


Fig 8 SAN JUAN, PUERTO RICO
FEBRUARY, 1945



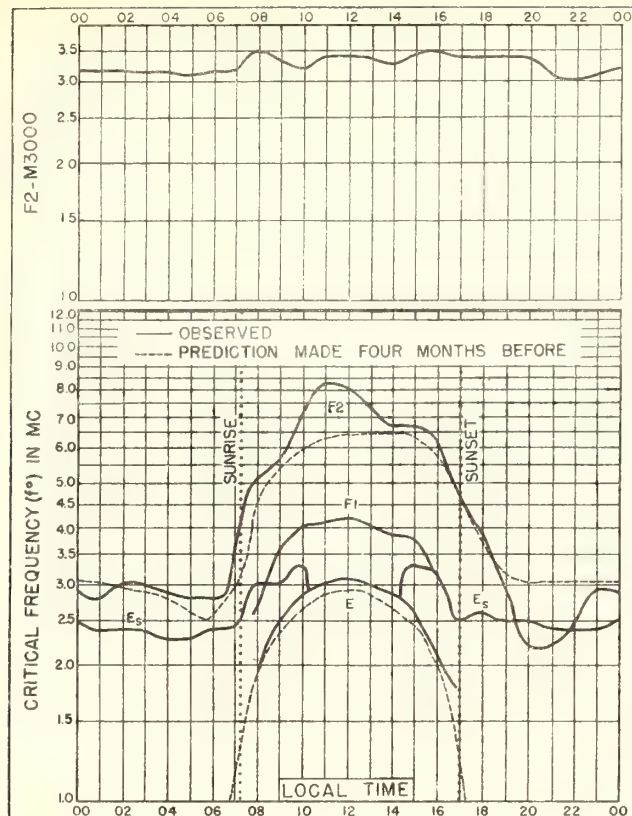


Fig.13. SAN FRANCISCO, CALIFORNIA
37.4°N, 122.2°W
JANUARY, 1945

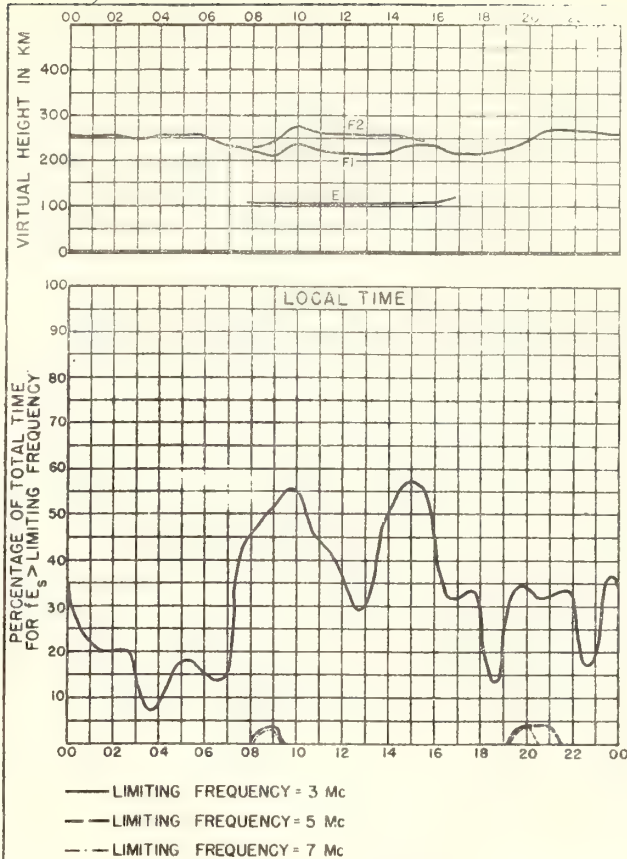


Fig.14 SAN FRANCISCO, CALIFORNIA JANUARY, 1945

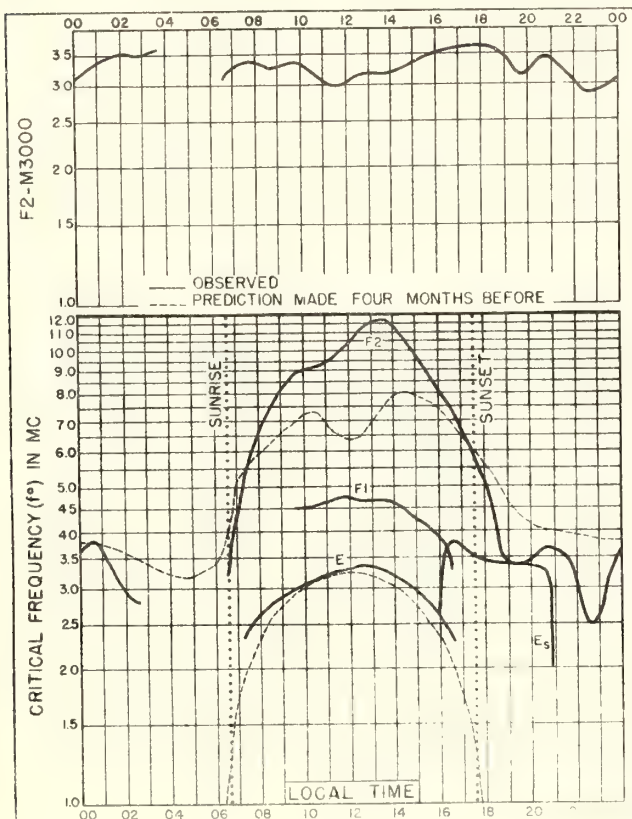


Fig.15. MAUI, HAWAII
20.8°N, 156.5°W
JANUARY, 1945

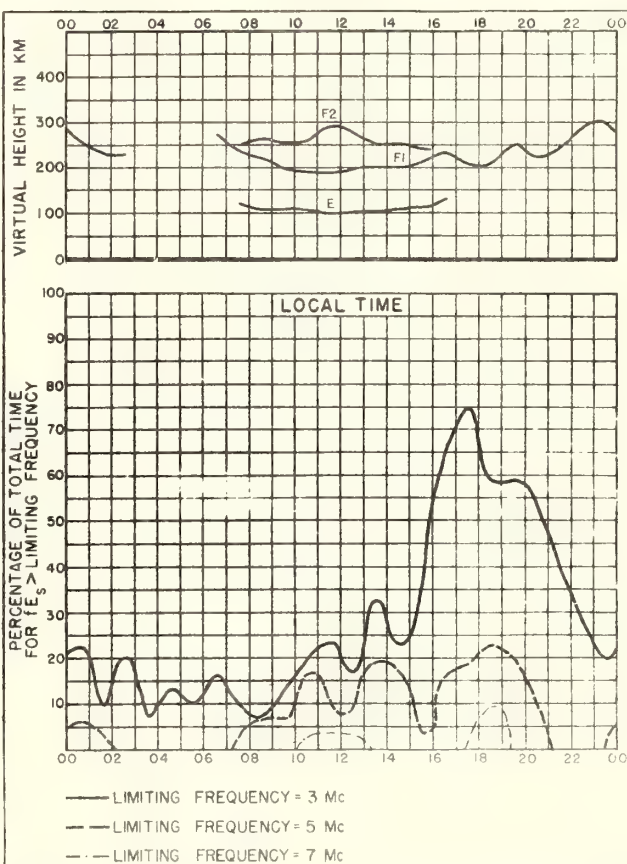


Fig.16. MAUI, HAWAII
JANUARY, 1945

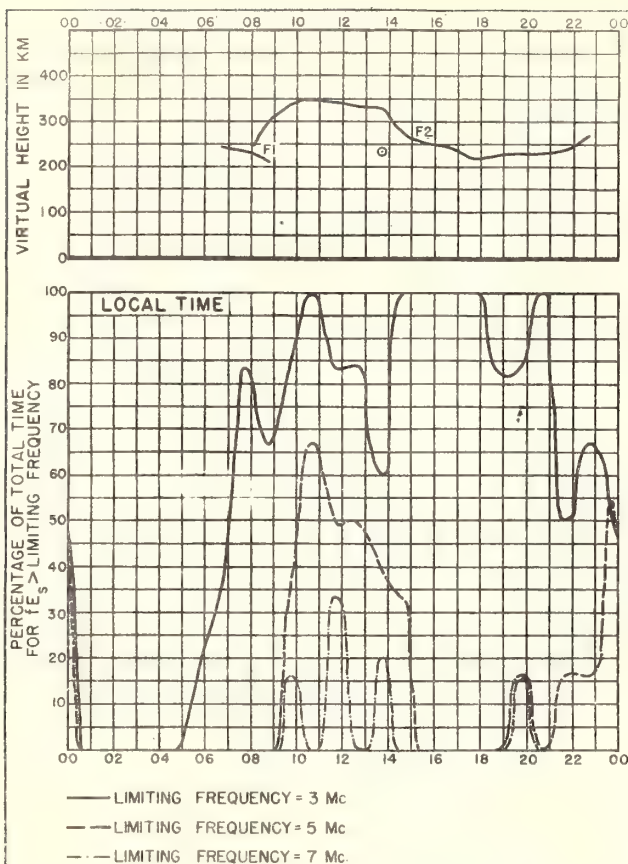


Fig. 17. GUAM I. JANUARY, 1945

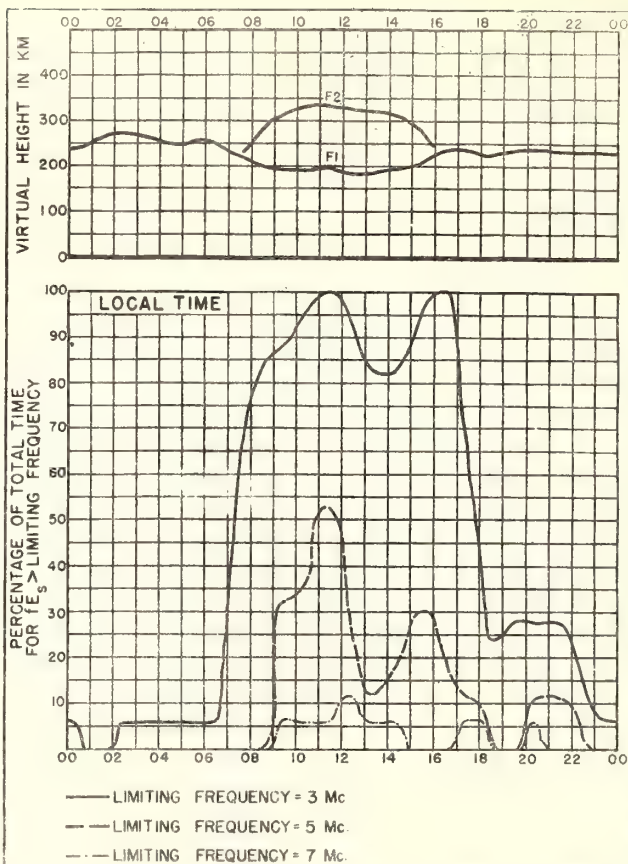


Fig. 18. KWAJALEIN ATOLL JANUARY, 1945

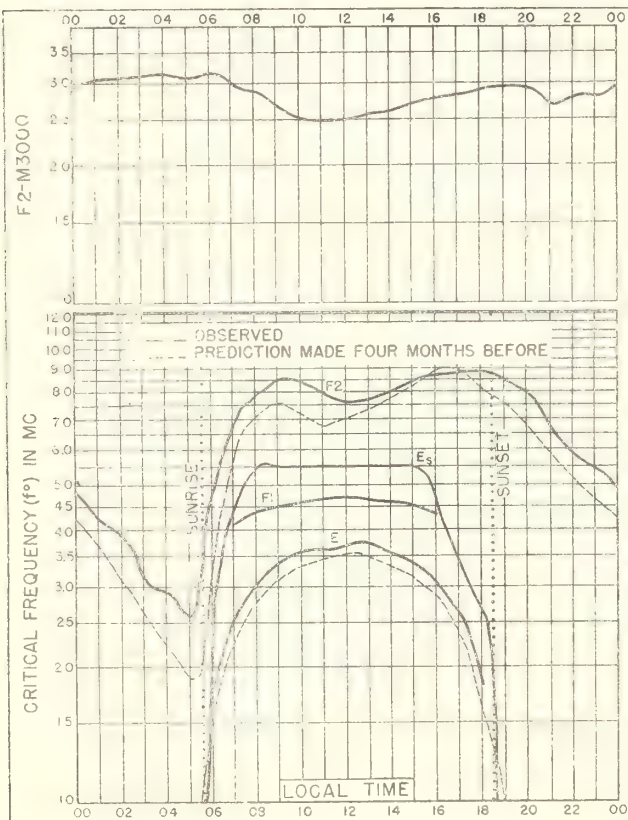


Fig. 19. HUANCAYO, PERU
12° 0' S, 75° 3' W JANUARY, 1945

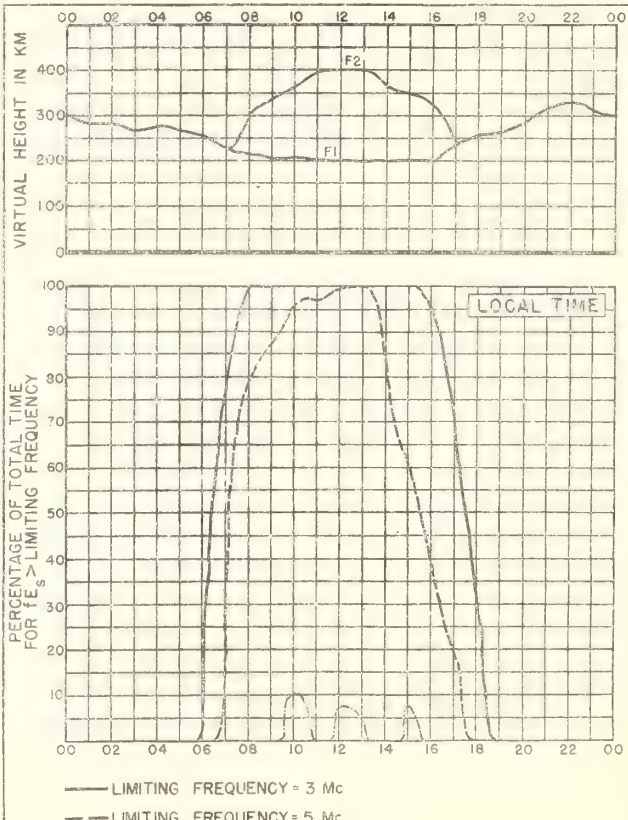


Fig. 20. HUANCAYO, PERU JANUARY, 1945

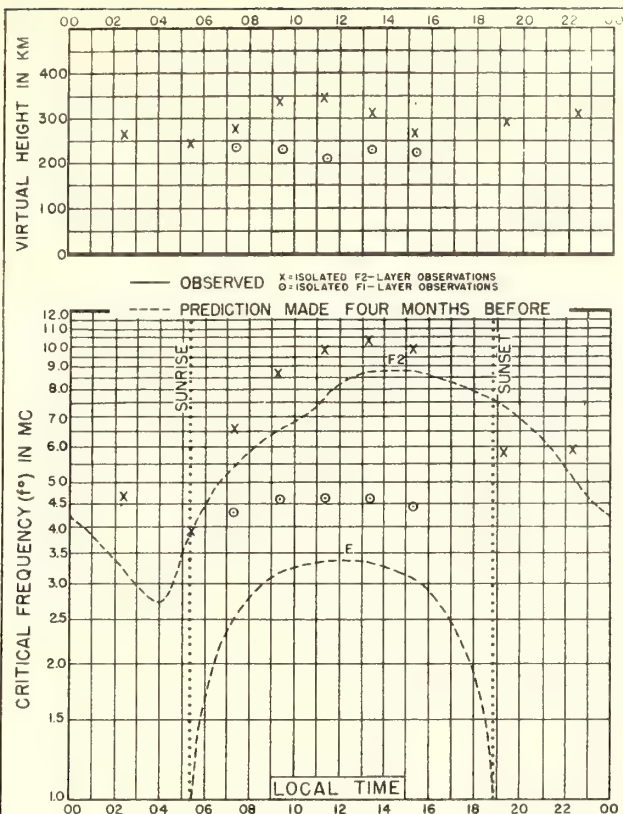


Fig. 21. PITCAIRN, IS.
25.0°S, 130.0°W

JANUARY, 1945

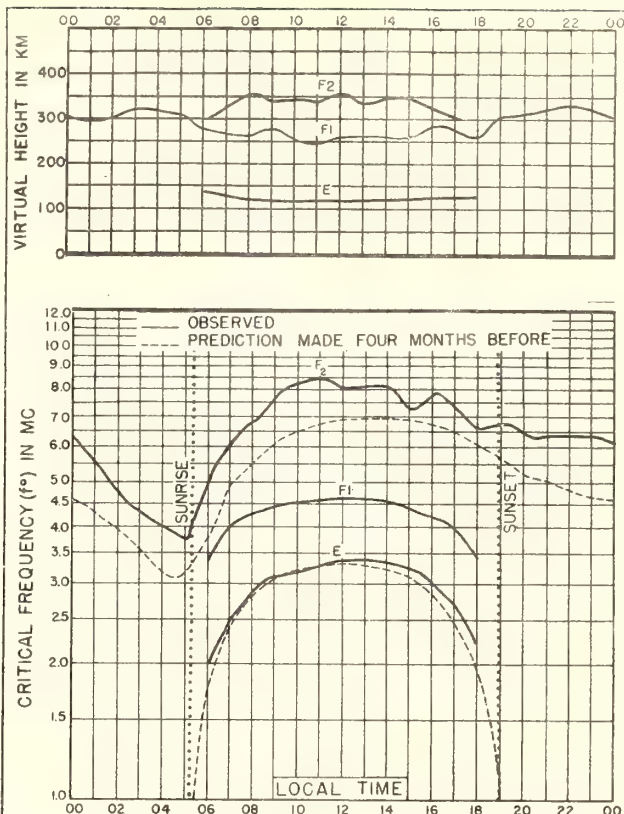


Fig. 22. KERMADEC IS.
29.2°S, 177.9°W

JANUARY, 1945

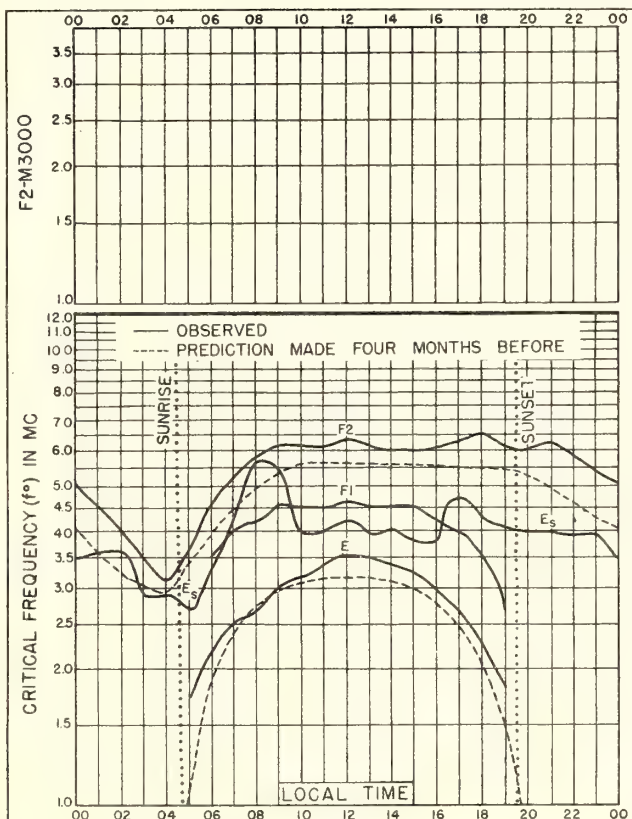


Fig. 23. CHRISTCHURCH, NEW ZEALAND
43.5°S, 172.6°E

JANUARY, 1945

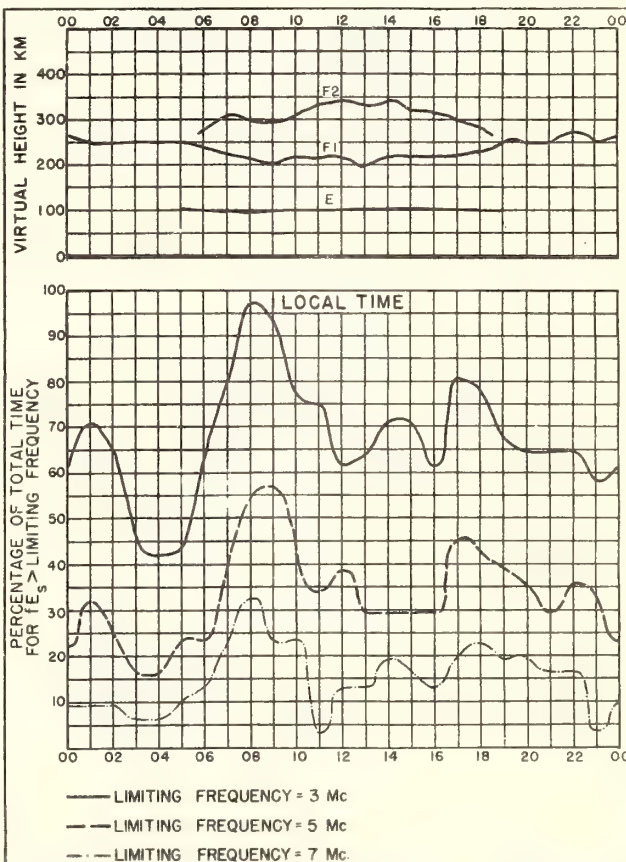
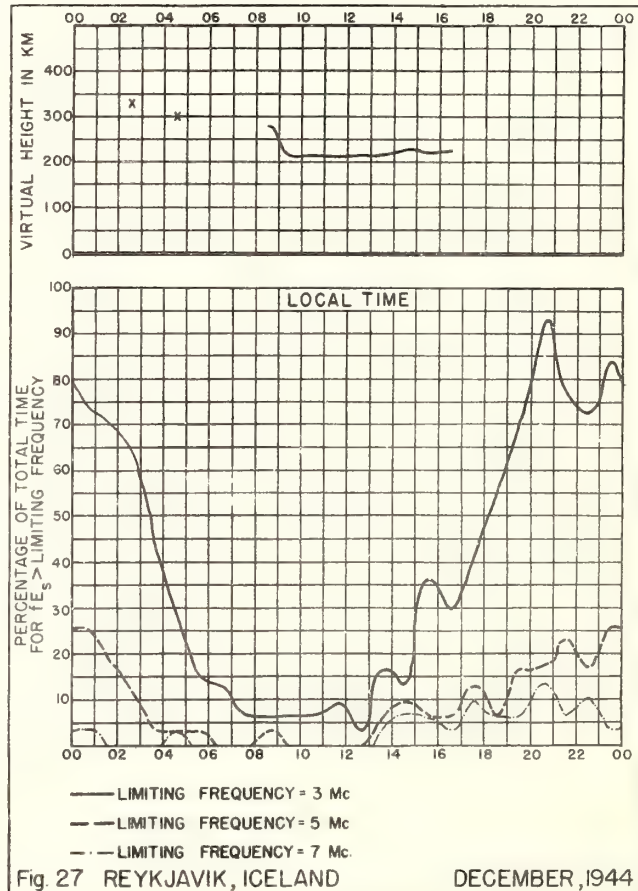
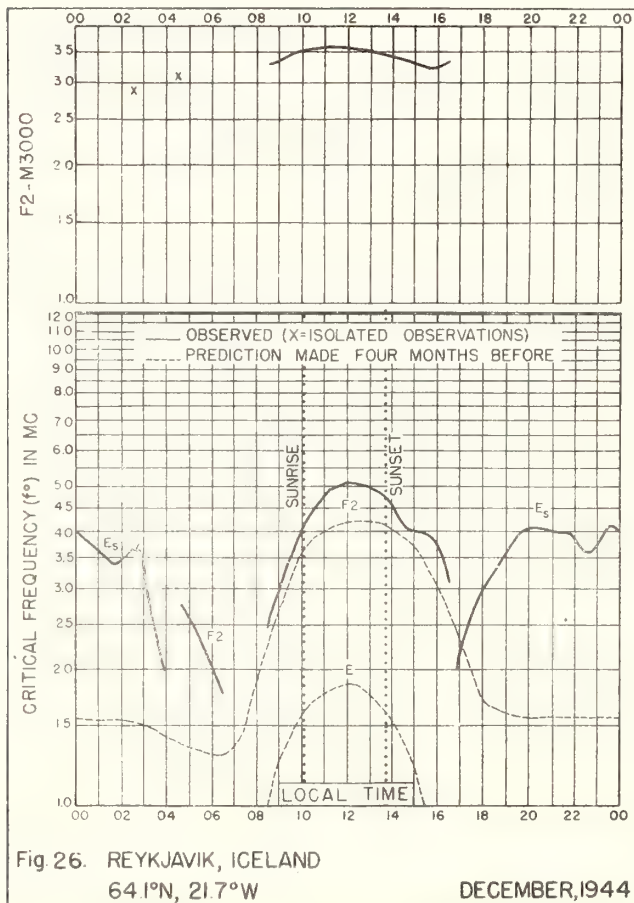
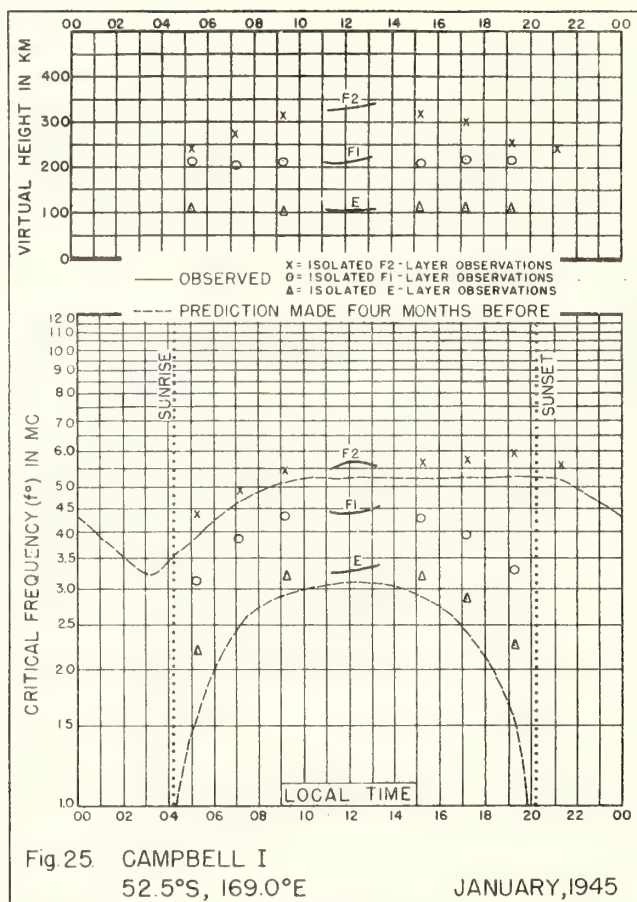
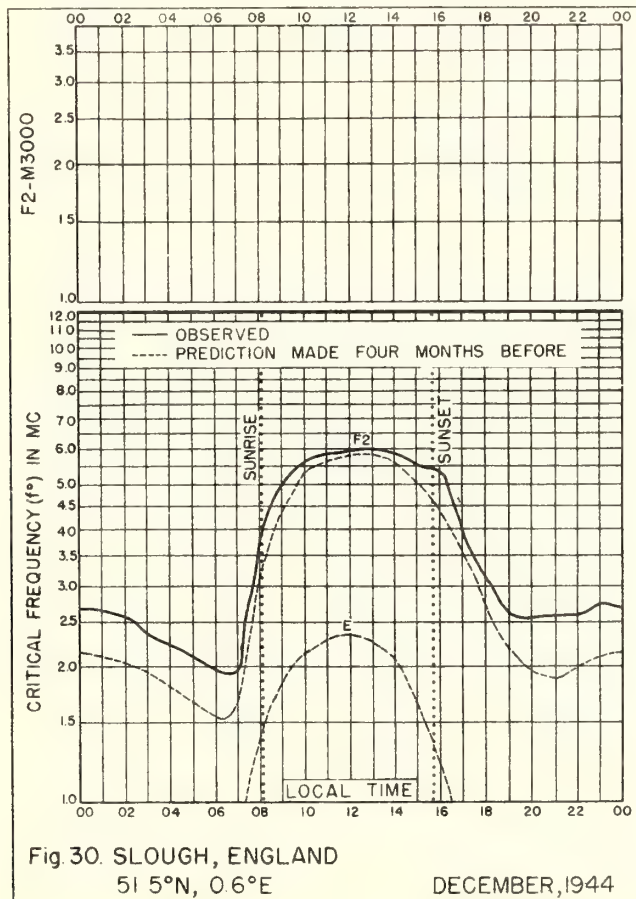
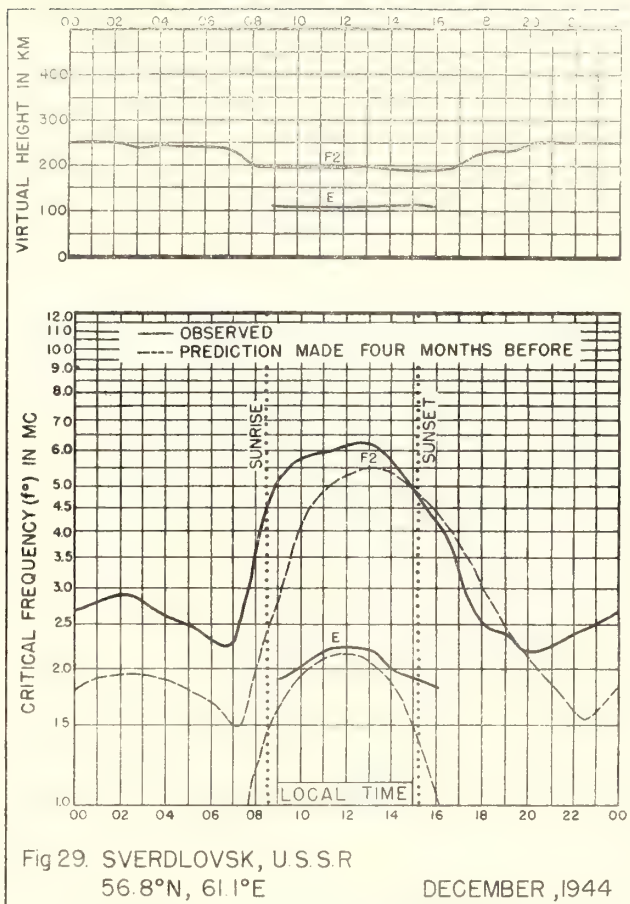
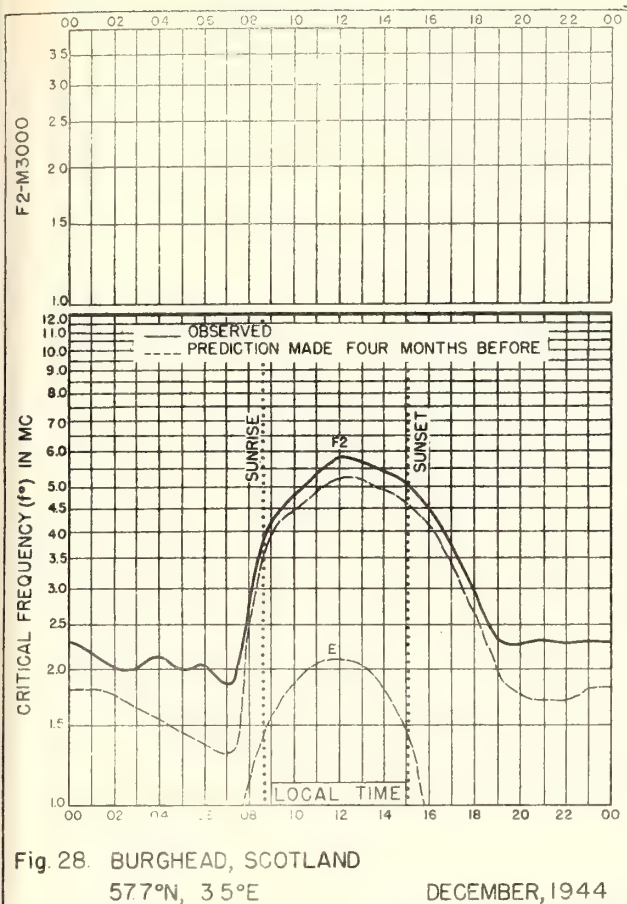


Fig. 24. CHRISTCHURCH, NEW ZEALAND

JANUARY, 1945





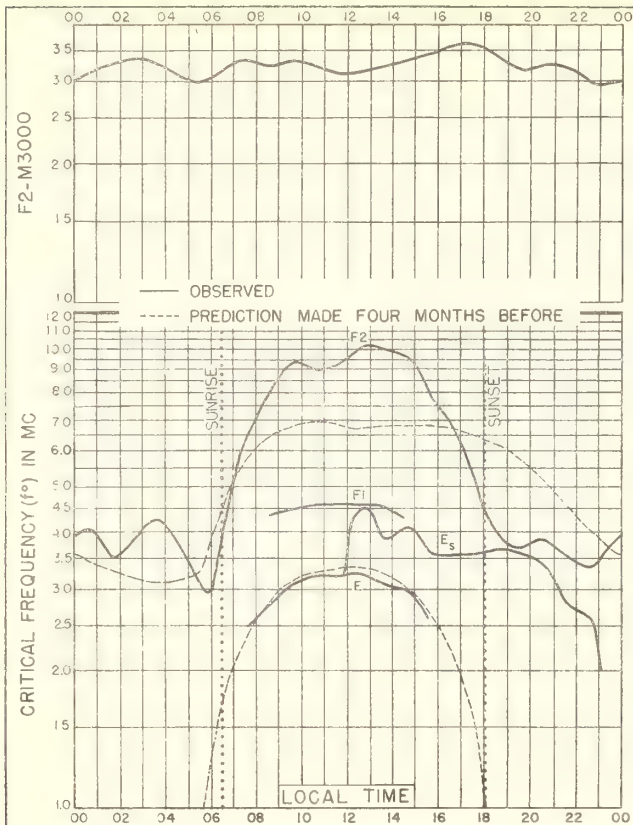


Fig. 31. MAUI, HAWAII
208N, 156.5W

DECEMBER, 1944

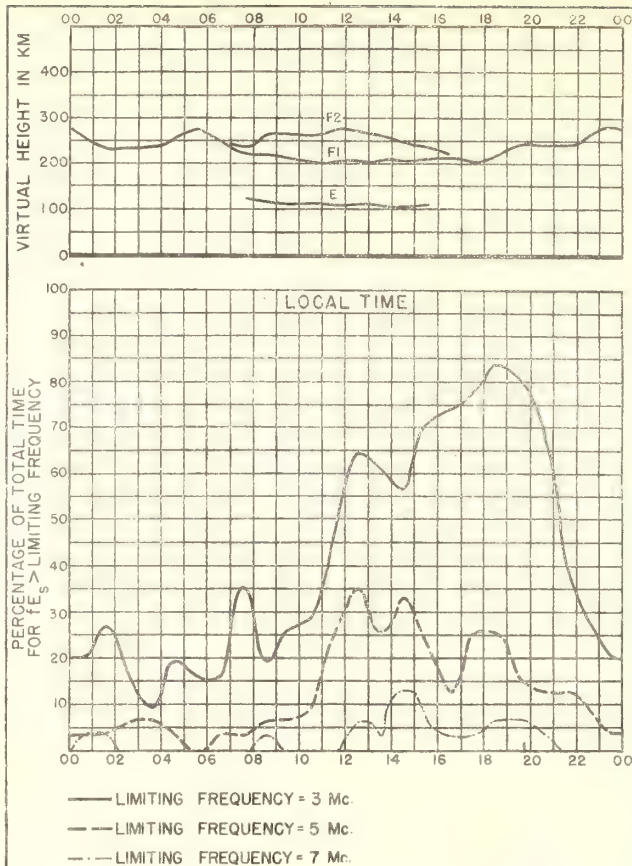


Fig. 32. MAUI, HAWAII

DECEMBER, 1944

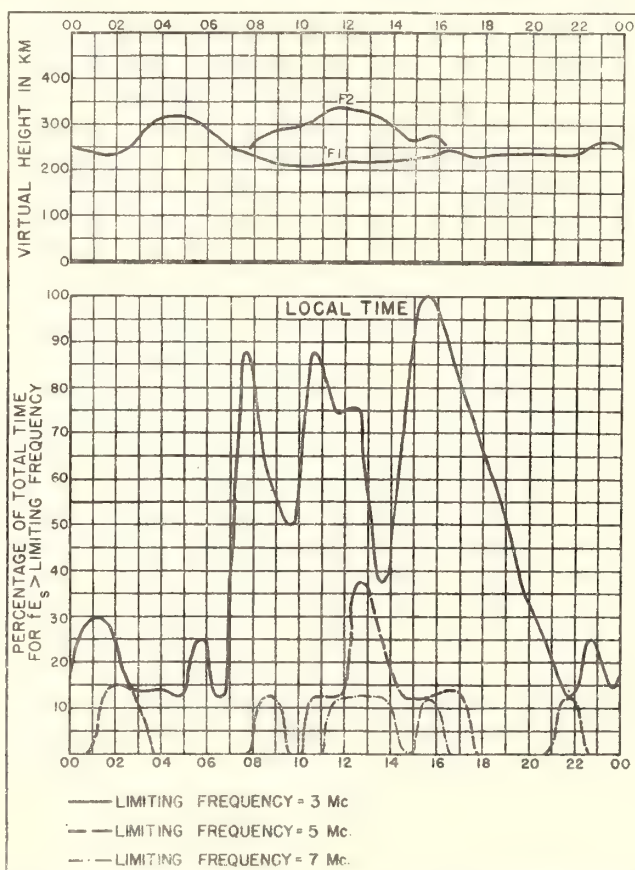
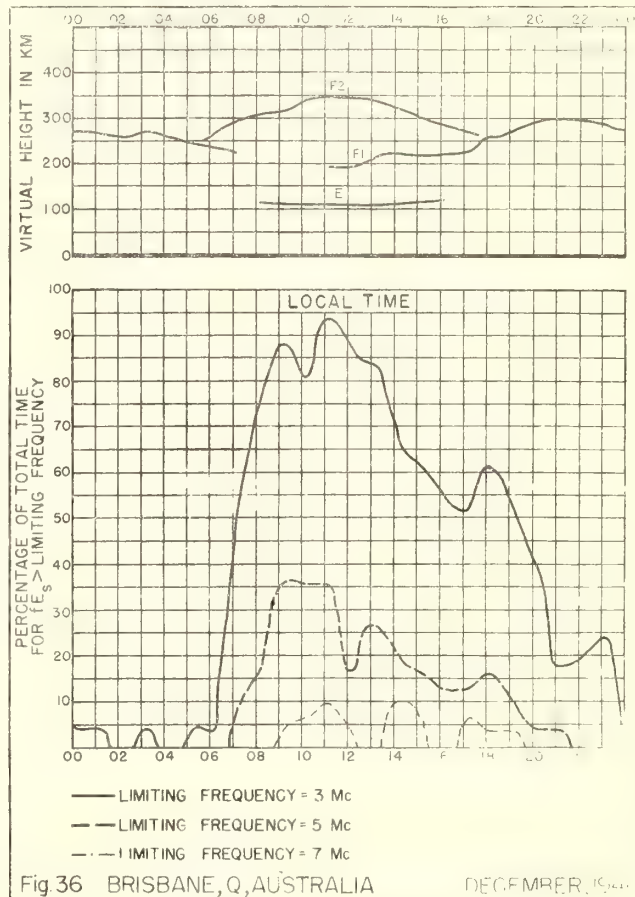
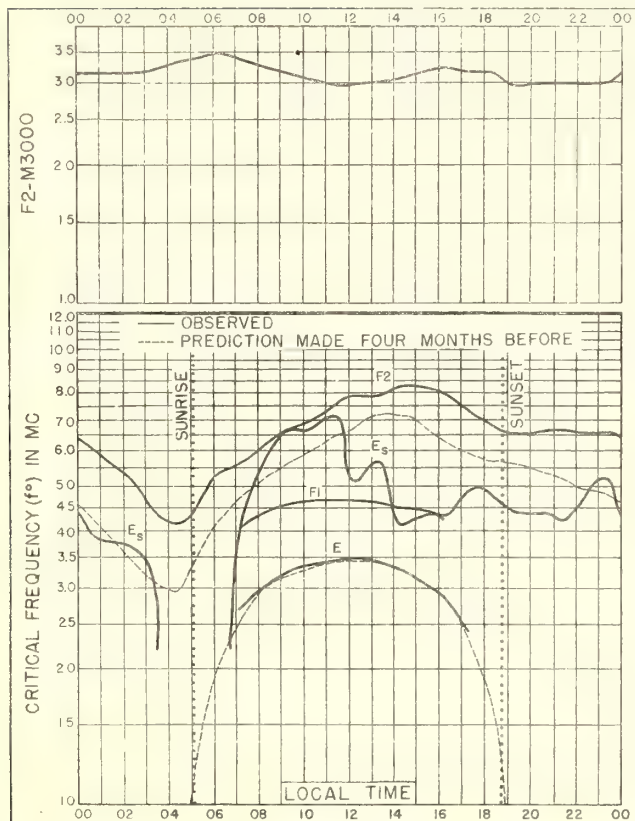
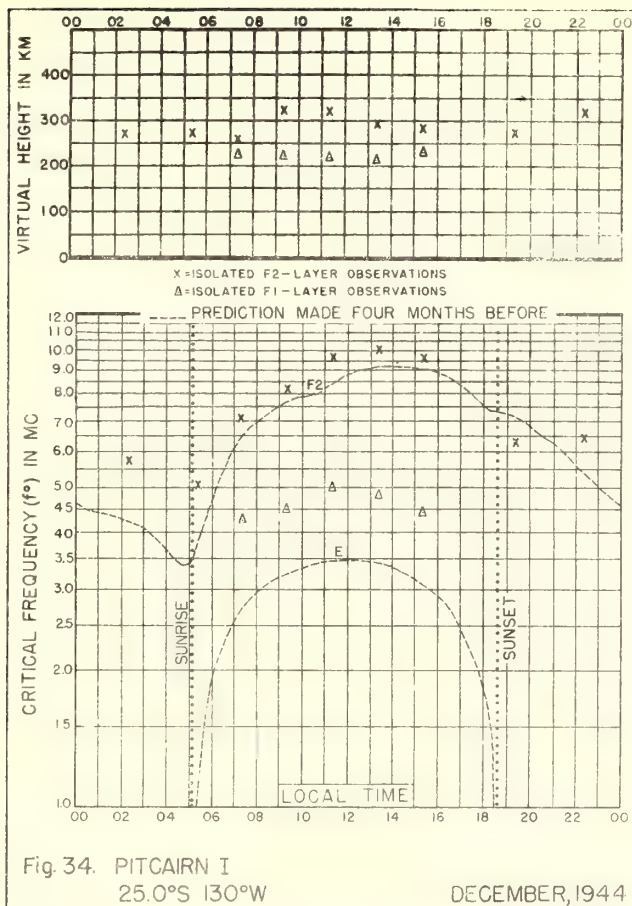
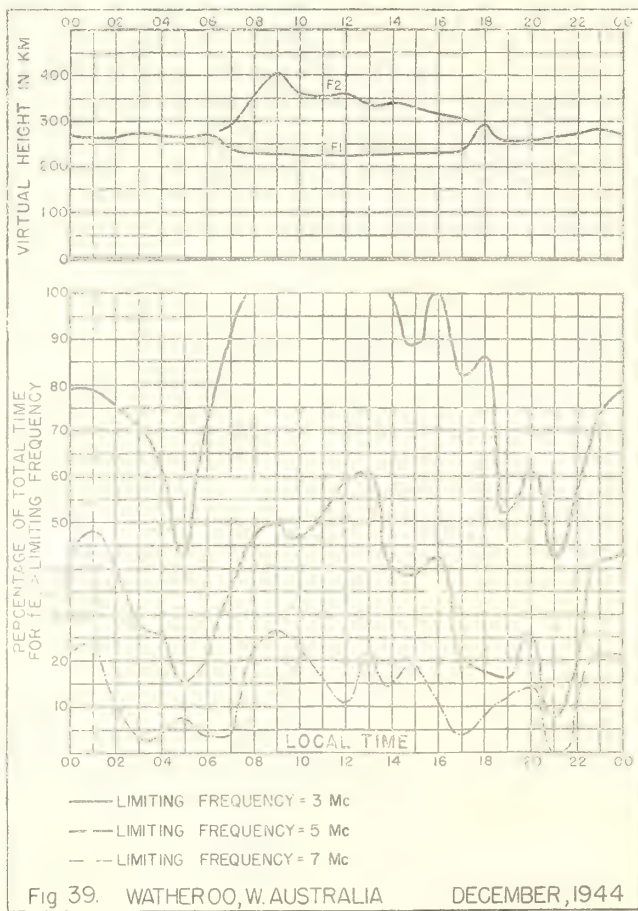
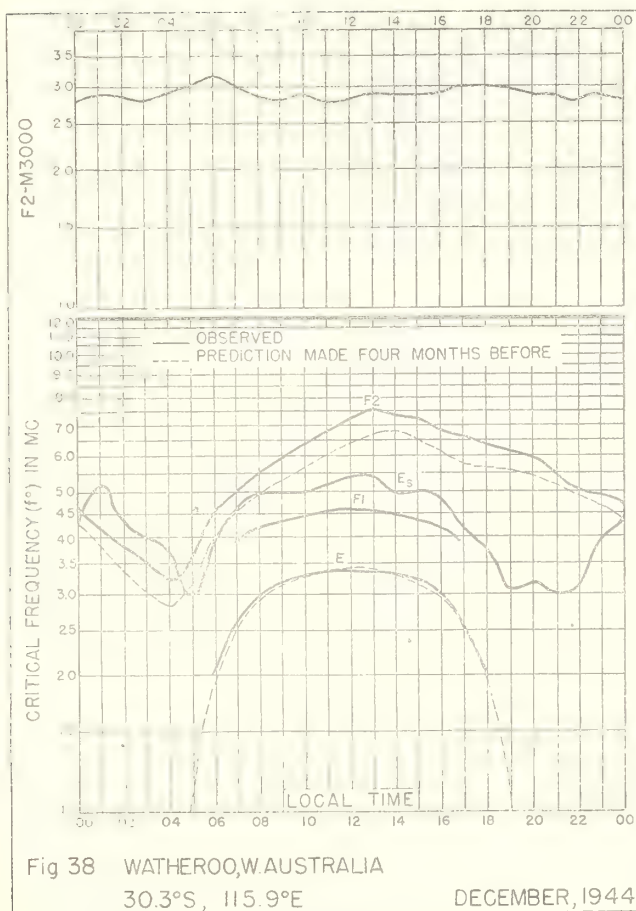
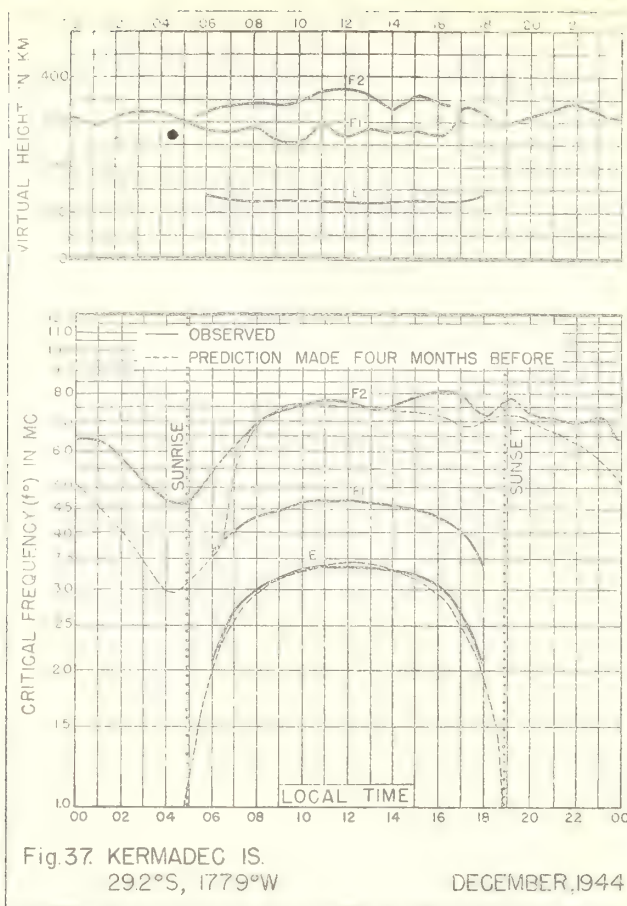


Fig. 33. GUAM I.

DECEMBER, 1944





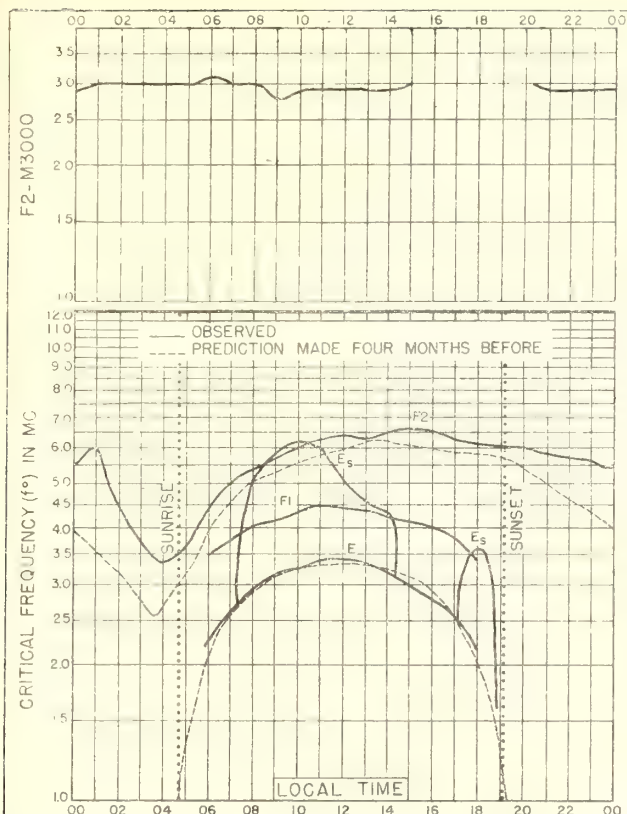


Fig 40. MT. STROMLO, NSW, AUSTRALIA
35.3°S, 149.0°E

DECEMBER, 1944

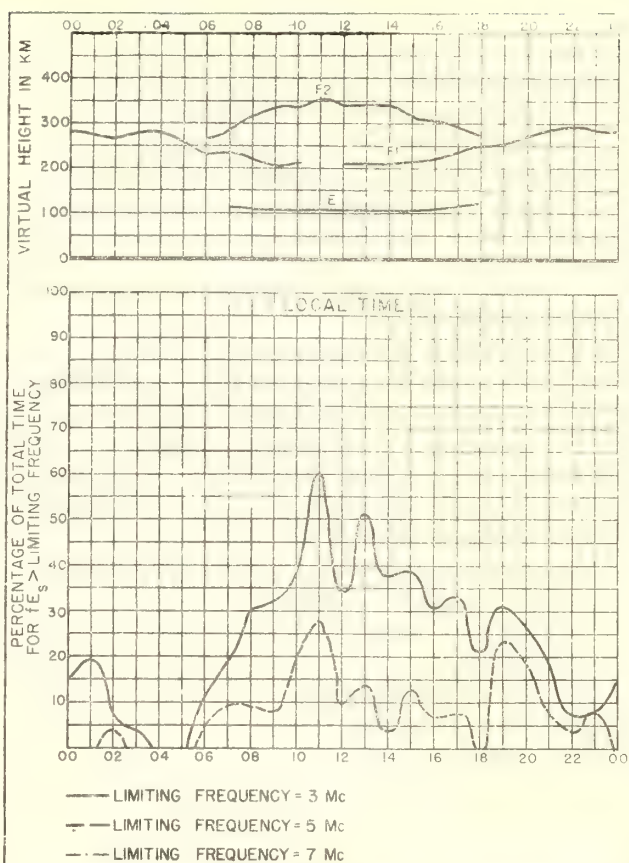


Fig 41 MT. STROMLO, NSW, AUSTRALIA DECEMBER, 1944

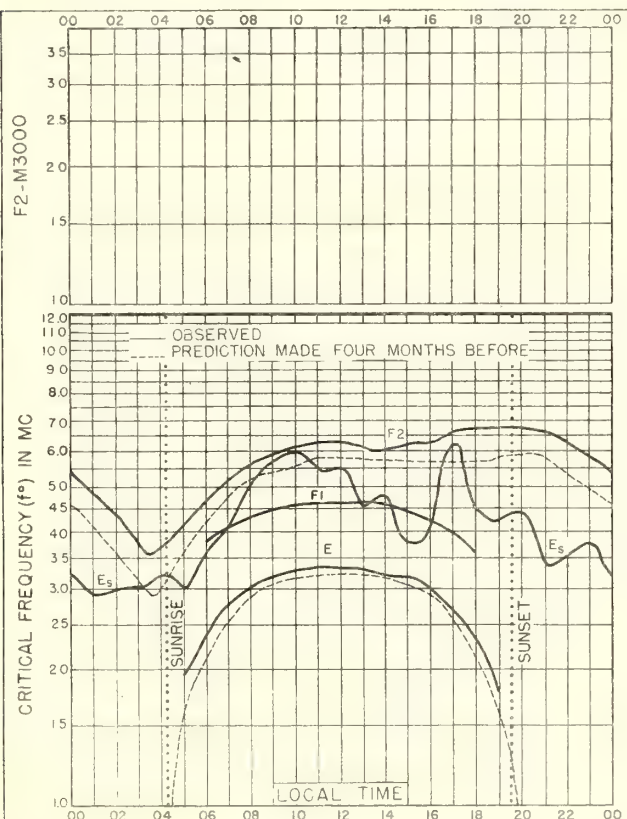


Fig 42. CHRISTCHURCH, NEW ZEALAND
43.5°S, 172.6°E

DECEMBER, 1944

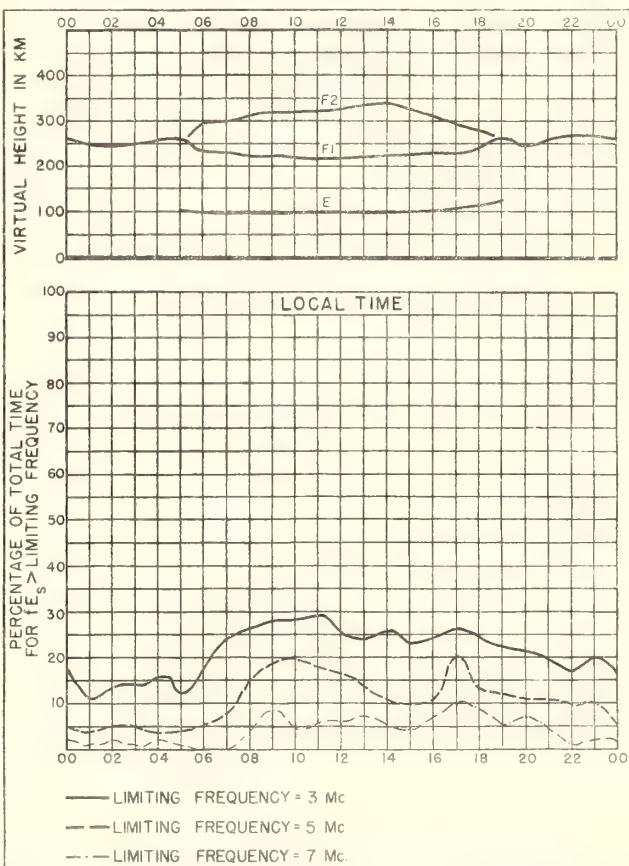
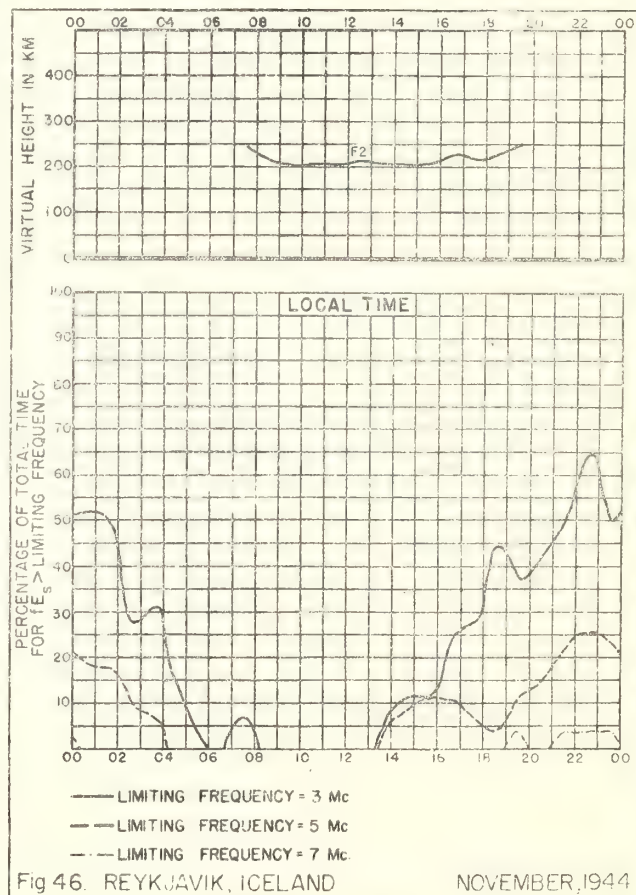
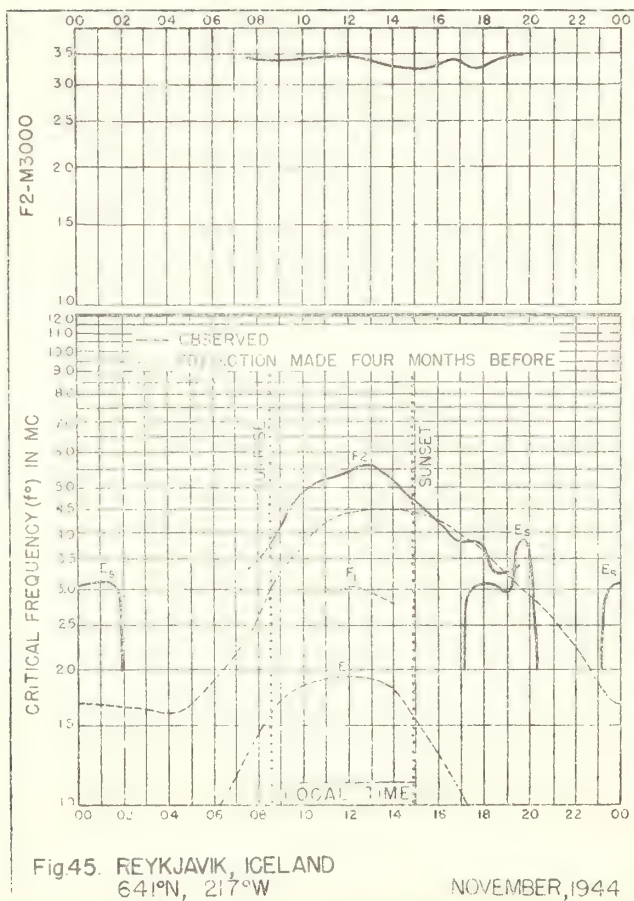
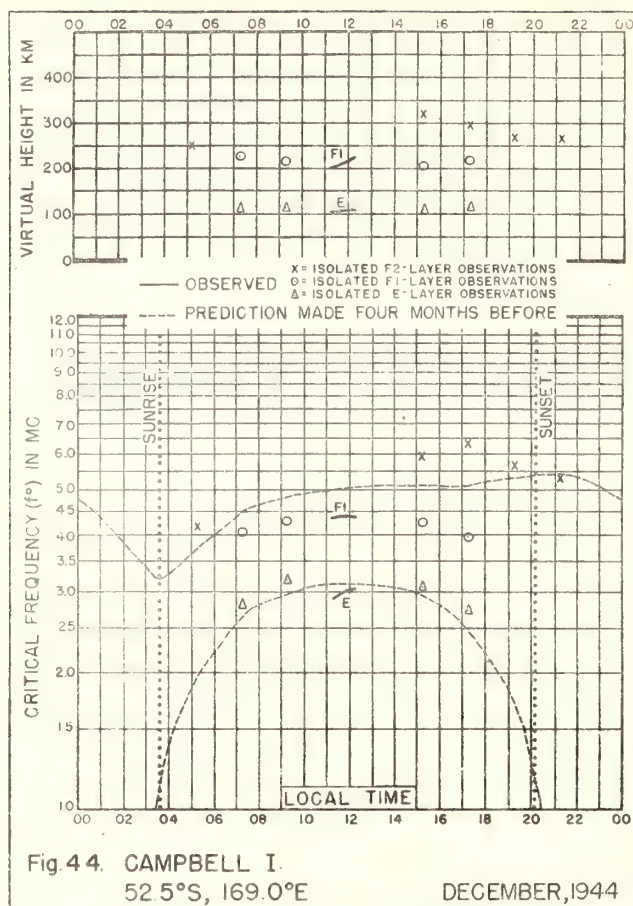
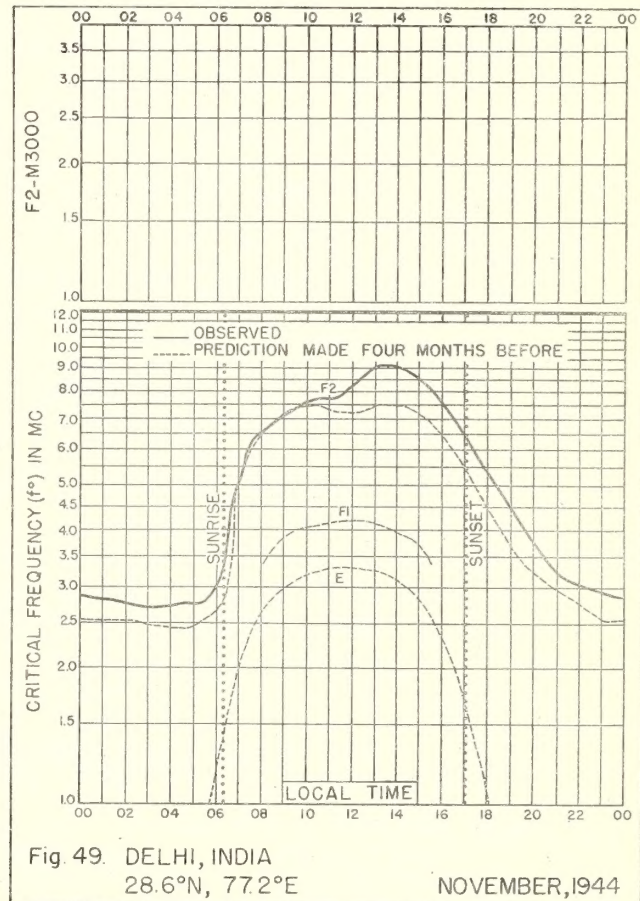
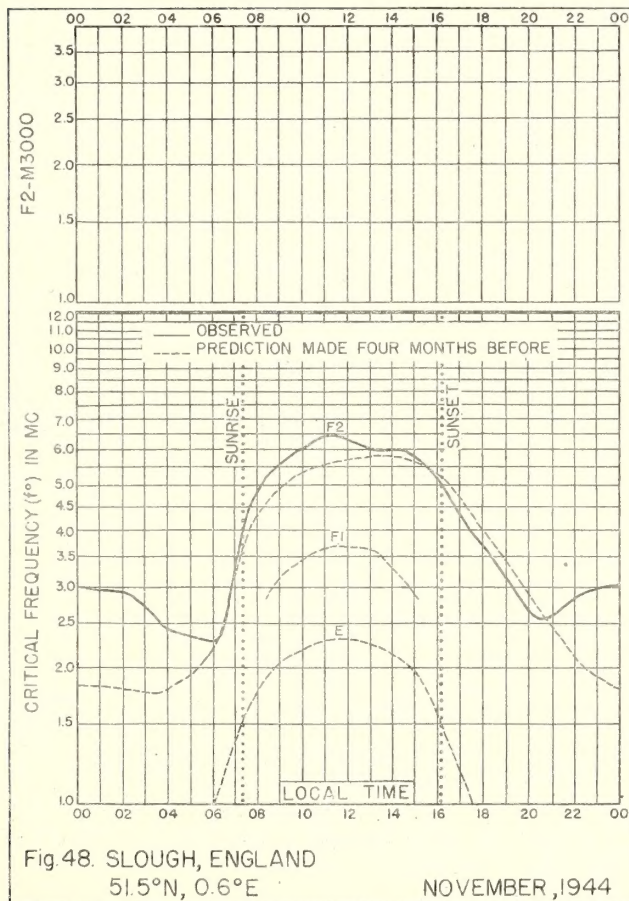
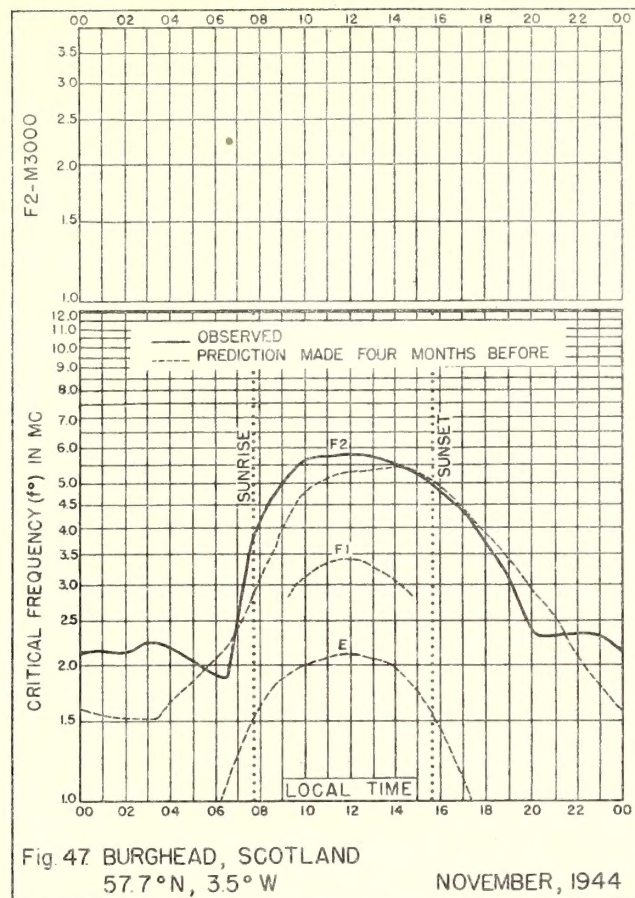


Fig 43. CHRISTCHURCH, NEW ZEALAND DECEMBER, 1944





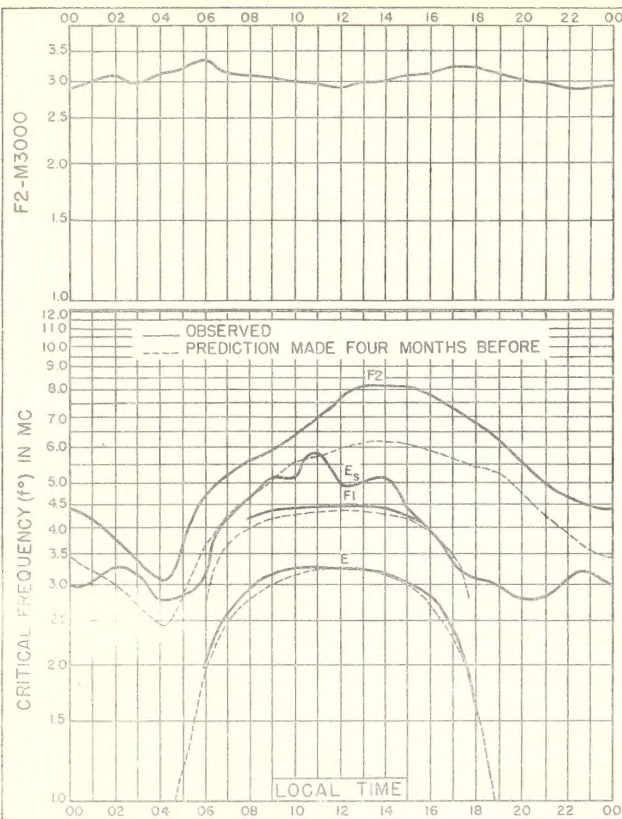


Fig. 50 WATHEROO, W. AUSTRALIA
30.3°S, 115.9°E NOVEMBER, 1944

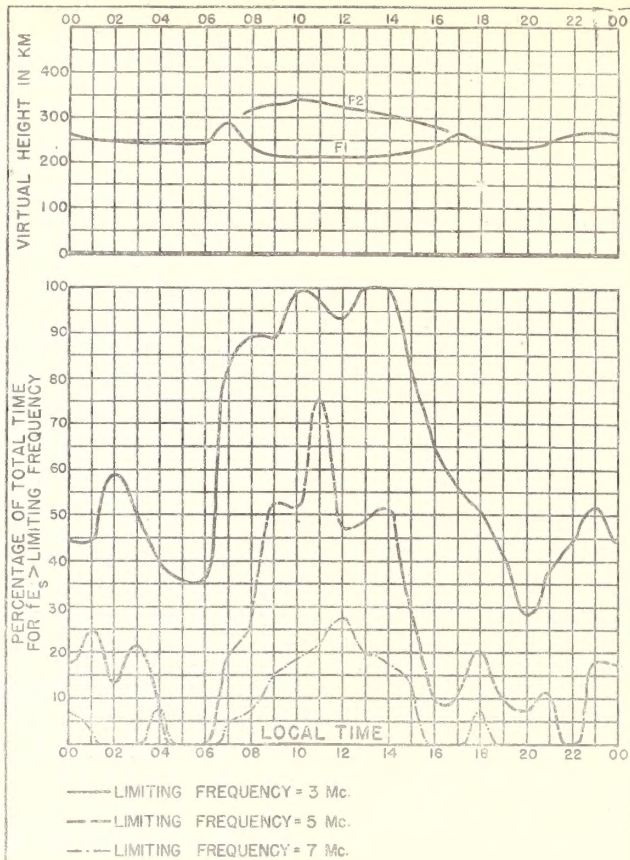


Fig. 51 WATHEROO, W. AUSTRALIA NOVEMBER, 1944

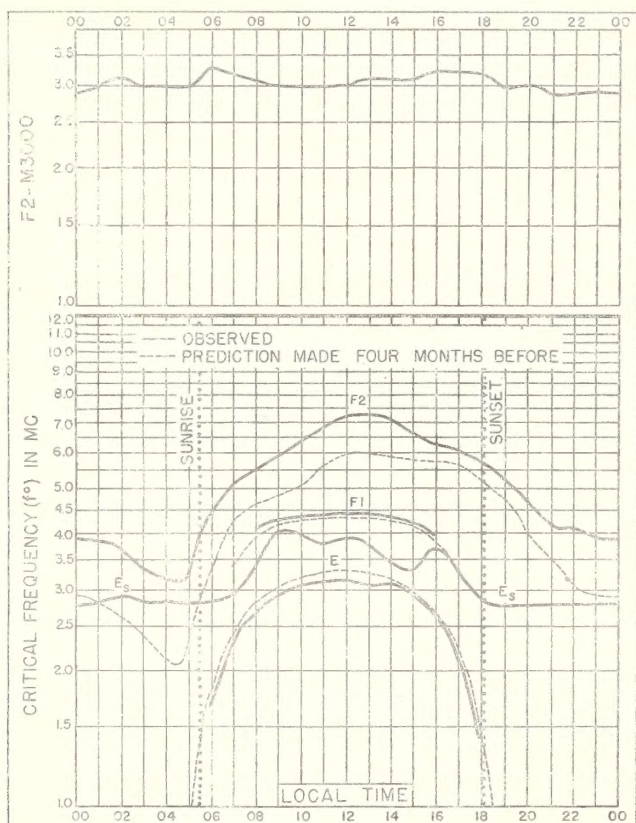


Fig. 52 WATHEROO, W. AUSTRALIA
30.3°S, 115.9°E OCTOBER, 1944

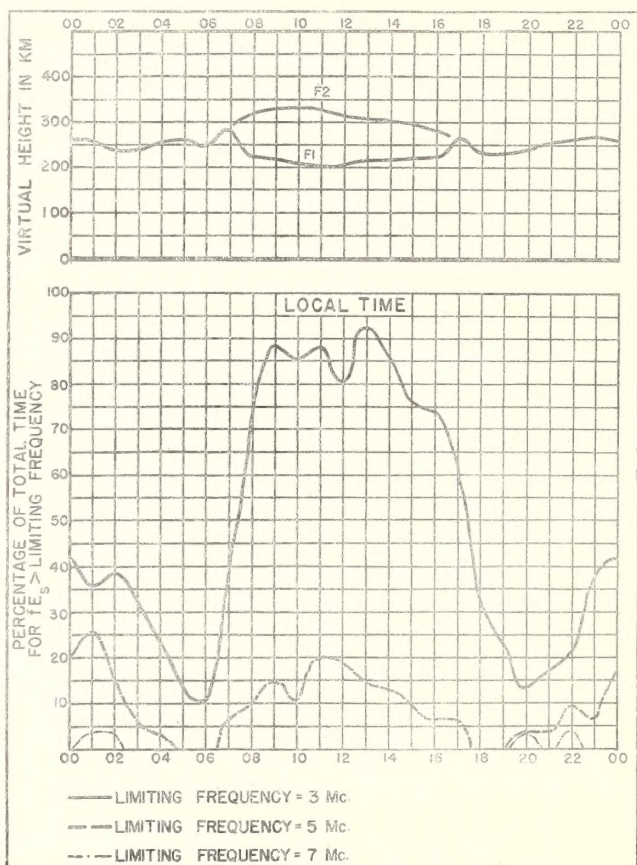


Fig. 53 WATHEROO, W. AUSTRALIA OCTOBER, 1944

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Telephoned and telegraphed reports of ionospheric, solar, geomagnetic, and radio propagation data from various places.
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Special Reports, etc.

IRPL Radio Propagation Handbook, Part 1.

IRPL-C1 through C61. Reports and papers of the International Radio Propagation Conference, 17 April to 5 May 1944.

IRPL-R. Unscheduled reports.

R1. Maximum Usable Frequency Graph Paper.

R2 and R3. Obsolete.

R4. Methods Used by IRPL for the Prediction of Ionosphere Characteristics and Maximum Usable Frequencies.

R5. Criteria for Ionospheric Storminess.

R6. Experimental studies of ionospheric propagation as applied to a navigation system.

R7. Further studies of ionospheric propagation as applied to a navigation system.

R8. The Prediction of Usable Frequencies over a Path of Short or Medium Length, Including the Effects of Es.

R9. An Automatic Instantaneous Indicator of Skip Distance and MUF.

R10. A method for study of the ionosphere.

IRPL-T. Reports on Tropospheric Propagation.

T1. Radar Operation and Weather. (Superseded by JANP 101).

T2. Radio coverage and weather. (Superseded by JANP 102).

